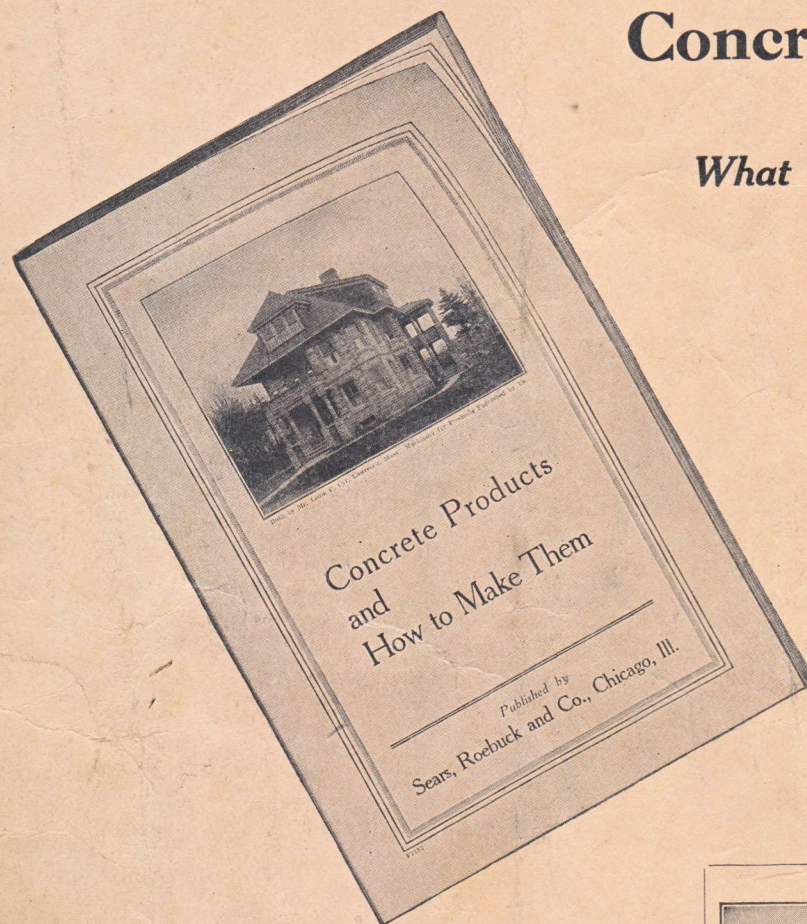


CONCRETE MACHINERY



SEARS, ROEBUCK AND CO.
CHICAGO

No Experience Is Necessary to Operate Our Concrete Machinery



What Others Have Done You Can Do

THIS general information book which we furnish free with our concrete machinery tells you everything you need know to successfully make concrete products. Furthermore, we will cheerfully answer any questions you may want to ask in reference to this subject, so you may feel doubly sure of making perfect products. The letters and pictures shown below and many others shown throughout this book demonstrate what inexperienced men have done.

We receive a great many orders from our customers who already have this general information book and we therefore furnish the book only when asked for. If you wish a copy please mention in your order that you would like a copy of "Concrete Products and How to Make Them," and it will be included free of charge.

Our Wizard Block Machine Entirely Satisfactory

Coon Rapids, Iowa.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—The Wizard Concrete Block Machine I got of you some time ago was entirely satisfactory. Enclosed you will find a photograph of a house I built from blocks I made with the Wizard Block Machine.

Yours truly,

H. BRUTSCHE.



This Nice Home Built by Amateurs

You Can Do as Well by Following Our Easy to Follow Directions.

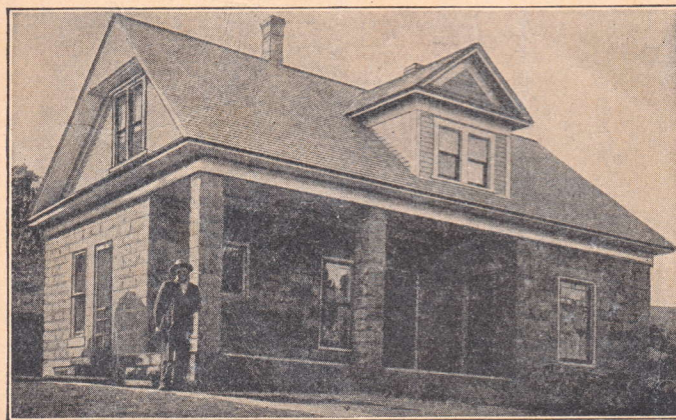
Moscow, Idaho.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—I am sending photograph of concrete block house made with your Wizard Concrete Block Machine. I am disappointed in the photograph, as it does not show the blocks as they are. The light was too bright in front of us when it was taken and shadows the blocks. This house was built by amateurs, as my sons and I had never before worked with cement in any way. We made our own blocks and also laid them up. We haven't our steps and walks in yet as we are farmers and have other work to do.

Yours respectfully,

H. W. MALLERY.



SEARS, ROEBUCK AND CO., CHICAGO.



The concrete blocks for this house were made on the Wizard Concrete Block Machine.

We Have a Complete Line

Look through this catalog carefully. You will find that we handle a very complete line of concrete machinery and can supply you with almost anything you want. The patterns of our face plates are made direct from cut stone, which has been prepared by expert stone cutters. See pages 6 and 7 and note carefully the many handsome designs which we can furnish. You can add these extra designs to your equipment one by one as your requirements grow. We can also furnish extra attachments for our block machines, which enable you to make practically any style or kind of block.

About Our Prices.

We sell the entire output of one of the largest factories in the country, and by reason of this large output are able to sell at a very low price and at the same time furnish a high grade of material and accurately finished machines. We ship all machines direct from this big factory and therefore save all unnecessary freight and handling expense, all of which in every other case must be paid by the man who buys the machinery. As concrete machinery is handled by us on the same basis as our other merchandise, our selling expense is naturally very low, and all this saving is given our customers in the low prices we quote.

About Our Illustrations.

All illustrations in this catalog were made from actual photographs of the machines or molds. We have found that many other concerns have copied our illustrations and have endeavored to meet our prices on our Triumph line of machinery. For the purpose of comparison, we secured samples of the machinery sold by others from these copied illustrations, and in every case we found that their machinery was made of much lighter material than ours, although our design was copied. Naturally, a concrete machine of light weight material will not stand the wear as well as a heavy machine, and it therefore will pay you to consider carefully before you place your order, and be sure to remember that if you buy from us you are protected absolutely against an unsatisfactory deal by our return privilege and money back offer, as explained on inside back cover page. We further invite you to compare our machinery with any machinery on the market, and if ours is not the most satisfactory return it, and we will send back to you all you paid for it, together with freight charges.

Cost of Making Concrete Products.

The materials required for making concrete products are Portland cement, sand and gravel or crushed stone. Portland cement is usually packed and sold in sacks of 95 pounds. Four sacks are considered a barrel, and a barrel is the unit of measurement, although cement is nearly always put up in sacks. Sand, gravel and crushed stone are usually sold by the cubic yard. The quantity of concrete which a given quantity of cement, sand and gravel will make depends on the proportions of each material and on the size of the grains of sand and

gravel or crushed stone. To make a perfect concrete sufficient cement should be used to fill the spaces or voids between the grains of sand and in turn enough of this sand and cement mixture should be used to fill the spaces between the gravel or crushed stone. In our general information book we tell you how to test the materials you use so as to ascertain the exact quantity of each required to make an ideal mixture. However, for the purpose of calculation and for all ordinary work, a mixture composed of one part cement, two parts sand and four parts gravel or crushed stone, which is called a 1:2:4 mixture, will answer and will make a first class product.

To make a cubic yard of concrete of 1:2:4 mixture will require:

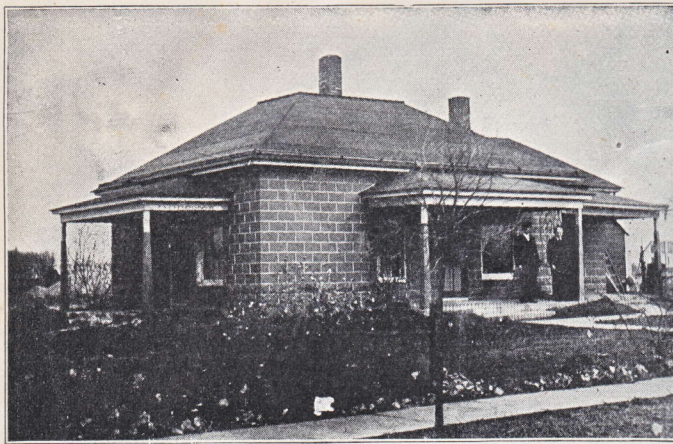
- 1½ barrels Portland cement.
- 2/5 of a cubic yard of sand.
- 4/5 of a cubic yard of gravel or crushed stone.

These figures are as close as can be given in common fractions, and you will find that as a general rule the amounts specified above will make more than a cubic yard of concrete, and your products will actually cost you less than what you figure they will cost when using our figures as a basis. This is a radical departure from the method commonly used, in which the estimated cost is nearly always less than the actual cost.

The prices of material and labor vary in every locality, so we tell you how much material and labor is required for various products; this will enable you to figure your own costs, which depend on the price of materials and labor in your locality.

Product	Quantity a Cubic Yard of Concrete Will Make	Number Two Men Will Make in 10-Hour Day
8x 8x16-In. Concrete Blocks..	72	200 to 250
8x10x16-In. Concrete Blocks..	53	190 to 230
8x12x16-In. Concrete Blocks..	44	175 to 225
Sill or Cap, 10 inches wide, 8 inches high, 5 feet long...	10	50
16x16-In. Chimney Blocks....	30	100
Porch Column Sections, 10 in. diameter, 12 in. high....	50	125

Farmers! Build With Concrete Products



Home of Mr. Alfred Hendee, Panama, Neb., who is using our Wizard Block Machine. He is well pleased with our machinery and has built a number of houses with the products of his machinery, which are giving perfect satisfaction. Read his letter below.

Panama, Neb.

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—I bought two of your block machines and have built four cottages, but have only the picture of one at present, which I enclose. Two of these buildings are smooth face and two rock face. The rock face buildings are better looking than the smooth face one, which is the first one I built. I am living in this one and have been for three years. I have been to the Cement Users' Convention and I did not find any machine that was handier than the Wizard and I would not trade with any of them. Your face plates suit me and I haven't seen any that are better than the plates you furnish.

Yours truly,

ALFRED HENDEE.

Conservation Is the Rule Nowadays.

Build your barns, chicken houses, stables, outhouses and other farm buildings of a material that will last for ages, with practically no expense of upkeep, no painting, no repairing, and best of all, no fire danger. All you need is Portland cement, sand and gravel or crushed stone. You no doubt have a sand or gravel pit on your farm or nearby and can get sand or gravel at a small expense. Cement can be had at a low cost. This is all you need to make concrete products on our machines. The blocks and other products are easy to make and can be made on rainy days or in your spare time, when you have no other work to do. You can also make up concrete products to sell and in this way make your spare time bring you some return. The blocks can be easily laid up in the wall and will make substantial, durable buildings.

No experience necessary to make blocks or other concrete products successfully. The directions in the information book which we furnish with our machines and molds explain everything so thoroughly that you can make perfect products even if you never mixed a shovelful of concrete before.

Fire Insurance Rates.

The fire insurance rates on frame farm buildings are high, as fire protection generally is not attainable, and when a fire does break out it usually destroys all buildings on the place. You can save from one-third to one-half in insurance rates on concrete buildings. Fire insurance seldom covers your complete loss; it surely will not cover the loss of time and labor to replace what was destroyed.

Protect yourself from danger of fire by building with fire-proof material. Concrete blocks will withstand enormous heat, and should a fire break out in a concrete block building it will be kept from spreading to other buildings. A hay or straw stack fire, which is quite common, is not liable to set fire to the contents of other buildings if they are built of concrete blocks. Furthermore, remember the saving of from one-third to one-half in insurance rates on a concrete block building over the rates for frame construction.

Build With Concrete Blocks and Save Money.

They are easily and quickly made, and by using our mortar gauges can be laid up in the wall without previous experience, a saving in time and expense over the method of pouring concrete in wood forms usually followed. A complete concrete block house will always have a neat, substantial appearance, with practically no expense for painting and repairing.

Concrete block buildings are cooler in summer and easier to heat in winter than frame houses. This is another big advantage to consider when deciding on the material to use for building.

Concrete block buildings add to the appearance of your place and will enable you to obtain a better price should you ever decide to sell your farm. You will not be put to the expense of painting and repairing to keep up the appearance of the place and your outbuildings will be more sanitary.

Note carefully the letters and photographs reproduced throughout this book. Concrete blocks are being used for all purposes and by people who have never made blocks or used them before. Get a machine and make your own building products and build of a lasting fireproof material.



One of the Concrete Block Houses Built by Mr. Lewis Kellogg of Columbia City, Ind.



Where Mr. Kellogg Has Made More Than 14,000 Concrete Blocks.

**WIZARD
Concrete
Block
Machine
Cannot
Be Beat**

Sears, Roebuck and Co., Chicago, Ill.

Gentlemen:—I have built five houses with the Wizard Cement Block Machine I bought of you and must say it cannot be beat for speed, easy working and perfect blocks. From my machine I get 200 blocks in eight hours with two men, and I have made with one man at the rate of thirty-two an hour, or I can make a block that is rock face and face it in thirty-five seconds. Block houses are dry and cool in summer and warm in winter, if the blocks are made right. The design of your machine cannot be beat and the machine in every respect is superior to any I have ever seen and a great deal cheaper and as for speed there is none faster. I will enclose photographs of some of my work that you may use as you see fit. These are the only kind I have now, but may have some more later.

Yours truly,
LEWIS KELLOGG.

**Makes
Two
Hundred
Blocks
in Eight
Hours**

Columbia City, Ind.

Stucco Plaster on Concrete Blocks

Practical Suggestions for Beautifying Concrete Buildings

If you object to the appearance of concrete block buildings, stucco plaster enables you to have all the benefits of concrete block construction and the appearance of high priced construction without the high price.

If you build a concrete block house you have your choice of an almost unlimited variety of designs, color schemes, and other means of decoration. To give you some idea of these we make a few practical suggestions on the subject.

Stucco plaster can be applied directly to the concrete block. This is past the experimental stage and is a proven success. Our book, entitled "Concrete Products and How to Make Them," which we furnish on request, contains all the information and directions necessary for accomplishing the best results with stucco plaster on concrete blocks.

Many who have built dwellings of concrete blocks, and then applied stucco plaster direct to the blocks, have met with perfect success. This class of construction and finish is used extensively in many of the high class residence suburbs of Chicago and other large cities, and although the cost is not great, the rental or sale price of such a building is very high.

Formerly stucco plaster was applied on wood or metal laths, but, as every builder knows, extra coats of plaster were required in order to make it strong enough to prevent cracking and disfiguring the building; when applied directly on the concrete block all that is required is a finishing coat. Stucco finish on concrete block construction also gives the building a massive or monolithic appearance. The plaster finish on blocks will not crack or become disfigured, as is often the case when wood or metal lath is used.

This method affords almost unlimited possibilities for beautifying buildings. You can color or tint the plaster any shade desired by using mineral colors. You can apply it in panels to different parts of the building, making a very artistic design. You can make the body one color and the trimmings, such as the coping, caps, sills, porch materials, corners, etc., a different color, giving the effect of a painted building but without the expense

of painting. Mineral colors in concrete are everlasting. In addition you can make your building perfectly waterproof by this method.

A concrete block building finished with stucco plaster on the blocks, according to our method, is practically everlasting and requires little, if any, repairing. It is permanent in every sense of the word, both in material and design. When you consider this fact you can see what a great saving such a building will make for you in the long run.

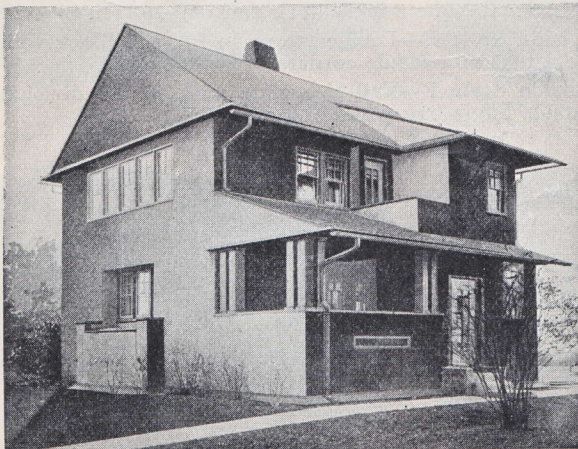
Stucco work costs but a trifle on concrete buildings. The block which is used for the body in such buildings is the ordinary rough block, having one mixture of material throughout. The face of the block is rough and of same consistency as the remainder. Back of block is scratched with a sharp instrument or nail, forming a solid anchor place for the stucco coat. Our book, "Concrete Products and How to Make Them," tells all about it. This book is furnished without charge if asked for. You save the time required to mix and apply the facing in the machine, also the cost of the extra quantity of cement required for facing. It will cost on an average about 36 cents a square yard for the finishing coat of stucco plaster, which is the only coat required for stucco work on a concrete block building.



An excellent example of stucco plaster on concrete block, with trimmings, such as corners, foundation, porch rail, lattice, etc., of rock face concrete blocks. The belt course is of a rope face design concrete block. The structure is a handsome one.

Stucco plaster on a concrete block building gives it the finished appearance of expensive reinforced concrete construction, and saves you the cost of expensive reinforcing, forms and labor. Block construction for all ordinary buildings is as suitable as reinforced concrete and the work can be done by any laborer.

You can build a house of concrete blocks that will be as practical for all dwelling purposes as any other material, and by following out the suggestions we make the finish and appearance will be as handsome as you can make with any other building material.



Plain stucco plaster on concrete block without any trimmings. This class of construction is preferred by some and makes a very handsome, plain structure.



Stucco plaster on concrete block house, foundation of panel face concrete blocks and belt course of scroll face concrete blocks. Window caps and sills of the vertical tool face design.

How to Order—Our Terms—Our Guarantee

How to Order.

Use our regular order blank mailed with this catalog or, if you have misplaced it, use any piece of plain paper. Be sure to sign your full name and address plainly so there will be no possible chance for us to make a mistake. If your shipping point is different from your postoffice be sure to give shipping point as well as the postoffice. Give the full catalog number of the machine or mold you wish to buy and send your money by postoffice money order, express money order, bank draft, or currency in a registered letter. If you have a checking account at a bank you may send us your personal check if you find it more convenient. Be sure that your address appears on the envelope in the upper left hand corner and that it is properly addressed to us.

Our Terms.

You are perfectly safe, for our thirty days' trial and guarantee, as outlined below, protect you absolutely. All concrete machinery and equipment is shipped direct from factory, as explained in the description of each article. There is, therefore, no unnecessary handling or freight expense to be added to our price, which explains why our prices on this class of goods are so much lower than prices usually asked for equipment of the same grade.

Thirty Days' Trial Allowed.

All machinery is shipped with the understanding that you can give it a thorough trial for thirty days, and if you are not perfectly satisfied you may send back the goods to us at our expense and we will return what you paid us for them, together with any transportation charges, so that you will not be out one penny.

Our Guarantee.

We guarantee our machinery to be perfect in material and workmanship and to give satisfaction. We agree to replace

without additional charge to the purchaser any machine or part of machine that gives out on account of defect in material or construction.

Repairs.

We furnish repairs without charge if they are made necessary on account of defect in material or workmanship or breakage in shipping. When required to replace parts broken by natural wear or tear or by accident we furnish them at small cost. We will be able to furnish you with repairs any time in the future, so if in years to come you should break your machine you will not have to discard it and get a new one on account of not being able to get repairs.

Directions.

We furnish complete directions for operating every machine or mold, so that even if you have had no previous experience you will be able to understand and operate it thoroughly and turn out the best of products on it.

General Information.

We also supply a General Information Book which tells you all about how to select and test the materials for concrete work; how to cure the products, and in addition gives a great deal of valuable advice in general on the concrete business. It is a book you would pay for willingly if you looked it over in a store. We furnish it free to help you in making concrete materials successfully. Ask for it when you place your order if you wish a copy.

Expert Service.

If any questions should arise that you do not fully understand, we have an expert to give you any needed information. If anything is not clear to you, you are at perfect liberty to write us and we will see that you get proper attention and the information you need. We are ready at all times to help you in anything pertaining to the concrete product business.

Designs We Can Furnish for Our Block Machines.

The illustrations below and on the following pages were made from actual photographs of blocks made on our Wizard Machine. The face plates for our Knox and Triumph Block Machines and our porch molds will make products with face just as handsome. We show return corner blocks for the purpose of illustration, but to make return blocks you must have endgates, as listed in the price list of extras, for the particular size and kind of a machine you want the parts to fit. Most designs are reversible, so but one endgate is required for making right or left corners. Where design is not reversible both endgates are required. Endgates are priced separately and are not included with the face plates unless ordered and price allowed. Right and left are always determined when standing in front of the machine, ready to operate it. As blocks are delivered with back to the operator a right hand endgate makes a return corner which is on the left when facing the block.

Be sure to order extra plates from price list of parts for your machine and tell us what machine the plates are for.

Face plates for fractional blocks can be furnished in various divisions as described below, unless otherwise specified.

Division Style A—Divided to make one half and two quarter blocks.

Division Style B—Divided to make two half blocks.

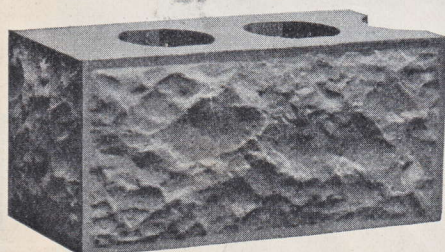
Division Style C—Divided to make one quarter block and one three-quarter block.

Division Style D—16-inch plate divided to make one 2-inch,

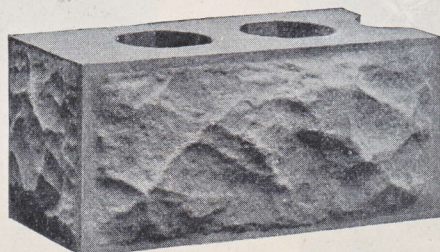
one 6-inch and one 8-inch block; 24-inch plate in Division D is divided to make one 8-inch block and one 16-inch block.

Division Style E—Divided to make full size block with half of face smooth for inside corners.

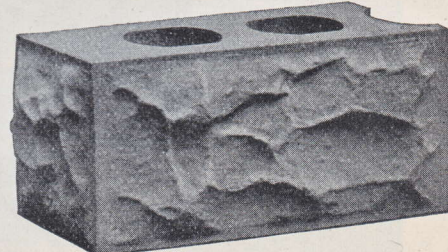
Division Style F—Full size plate with special division line for outside angle bay window blocks.



Design No. 1. Shallow Rock Face.



Design No. 2. Medium Rock Face.

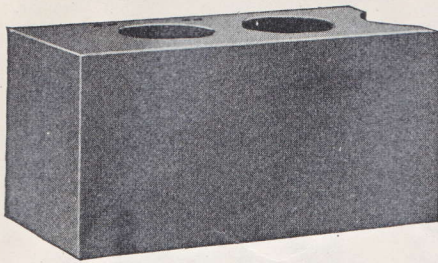


Design No. 3. Heavy Rock Face.

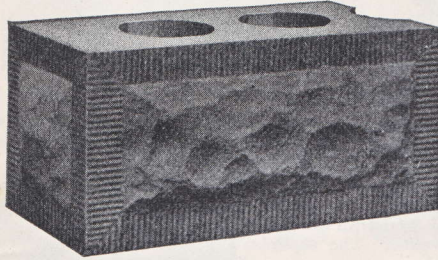
These three designs are reversible, so only one endgate is required for either right or left return corner. Design 1 Endgate can be used with Design 2 and Design 2 Endgate with Design 3.

Designs We Furnish for Our Block Machines

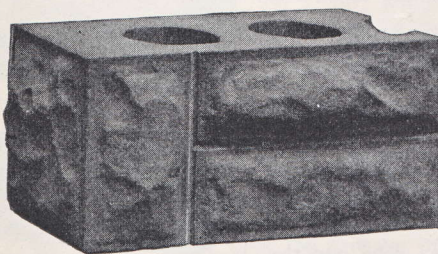
See Instructions for Ordering on Page 6.



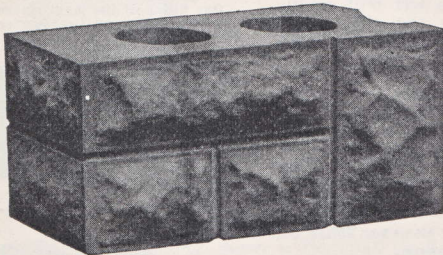
Design No. 4. Standard Plain Face.
Can be furnished in all Divisions. But one endgate needed.



Design No. 7. Rock Face With 1 1/2-Inch Tooled Edge.
16-inch plate not made in Divisions C and D. Division F not made in any size. But one endgate needed.



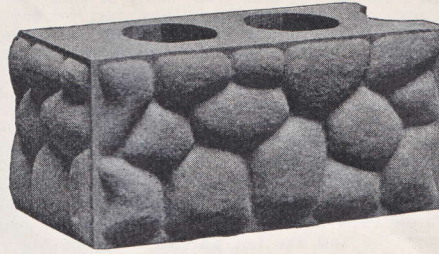
Design No. 10. Broken Ashler Face.
Block made with groove between block sections for beading or tuck pointing when wall is completed. For fractional blocks order desired division in Design No. 2 which matches this design perfectly. For right hand corner block use Design No. 2 endgate. For left hand corner order endgate to match.



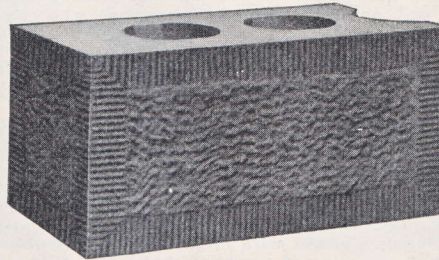
Design No. 11. Broken Ashler Face.
Block made with groove between block sections for beading or tuck pointing when wall is completed. For fractional blocks order desired division in Design No. 2 which matches this design perfectly. For left hand corner block use Design No. 2 endgate. For right hand corner order endgate to match.



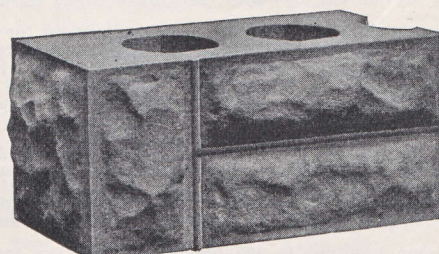
Design No. 13. Ornamental Wreath Face.
Fractional plates not made in Divisions D and F. Both right and left endgates needed.



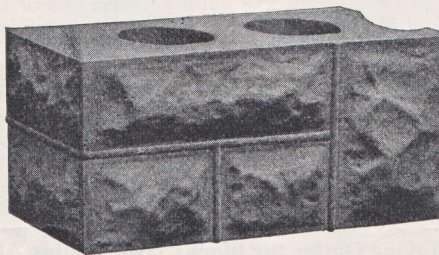
Design No. 5. Cobblestone Face.
A fine "above ground" foundation block. 16-inch plate not made in Division D. Division F not made in any size. But one endgate needed.



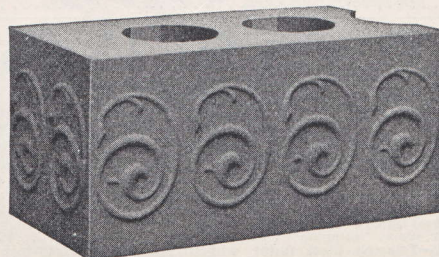
Design No. 8. Bushhammer Face With 1 1/2-Inch Tooled Edge.
16-inch plate not made in Divisions C and D. Division F not made in any size. But one endgate needed.



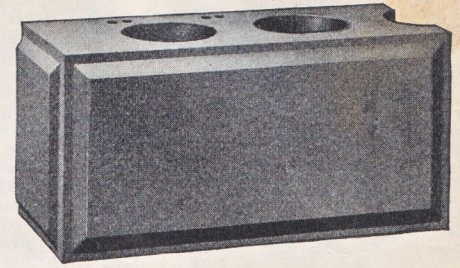
Design No. 17. Broken Ashler Face.
Block made with bead between sections. Does not require tuck pointing when laid up in wall. For fractional blocks order desired division in Design No. 2 which matches this design perfectly. For right hand corner block use Design No. 2 endgate. For left hand corner order endgate to match.



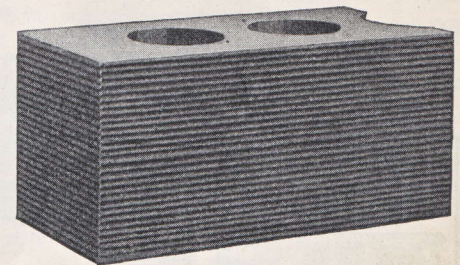
Design No. 18. Broken Ashler Face.
Block made with bead between sections. Does not require tuck pointing when laid up in wall. For fractional blocks order desired division in Design No. 2 which matches this design perfectly. For left hand corner block use Design No. 2 endgate. For right hand corner order endgate to match.



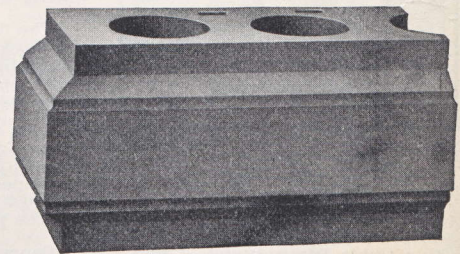
Design No. 14. Ornamental Scroll Face.
Fractional plates not made in Divisions D and F. Both right and left endgates needed.



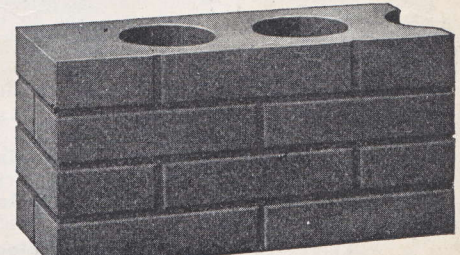
Design No. 6. Panel Face.
16-inch plate not made in Division D. But one endgate needed.



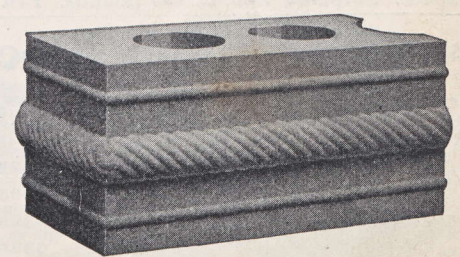
Design No. 9. Horizontal Tooled Edge.
But one endgate needed.



Design No. 12. Water Table Face.
No fractional face plate needed for fractional blocks in this design. Endgate furnished is not fastened in but sets in place and is supported by any plain endgate in machine. The water table endgate is also used as a dividing plate for making fractional blocks of any length. But one endgate needed.



Design No. 16. Pressed Brick Face.
Fractional plates not made in Divisions D and F. Both right and left endgates are needed.

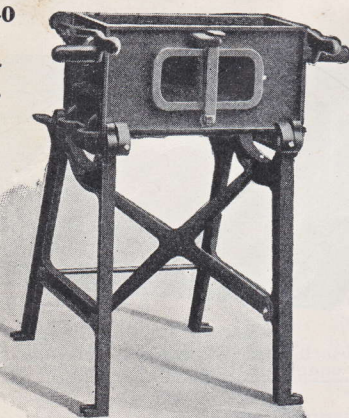


Design No. 15. Ornamental Rope Face.
Fractional plates not made in Divisions D and F. Both right and left endgates needed.

Triumph Concrete Block Making Outfits

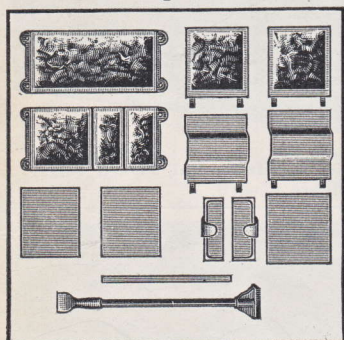
\$1940

For
8x8x16-
Inch
Blocks.



Style to Make Blocks With Single Air Space.

This Outfit of Parts Goes With Every Triumph Concrete Block Making Outfit:



- One Rock Face Plate for whole blocks.
 - One Rock Face Plate for half and quarter blocks.
 - Two Rock Endgates.
 - Two Core Endgates.
 - Two Dividing Plates.
 - One Gable Block Dividing Plate for making gable blocks.
 - Two Joist Block Attachments for making opening in block for floor joists.
 - Plugs for making solid blocks.
 - One Striker.
 - One Double End Tamper.
 - One Sample Wood Pallet (not illustrated).
- These enable you to make the blocks for any ordinary building. We can furnish additional parts and attachments, as shown on next page.

These outfits include our Triumph Block Machine, which uses wood pallets and makes blocks face down. We recommend this outfit to the man who wants to make blocks for his own use. In this connection, however, we ask you to read the description of our Wizard Block Outfit shown on page 10. The Wizard Block Machine is really the better machine to buy, as it has many advantages over the Triumph. It has automatic core movement, which enables you to release a block and lock the machine for another in less than half the time it takes on the Triumph. Your outfit is, therefore, practically doubled by using a Wizard Block Machine. It requires less labor to operate, which is a very desirable feature; it is a more complete machine in every way, and we especially recommend it to those who require a big capacity machine. However, if you want a low priced machine and are not particular about big capacity and automatic features, we are sure the Triumph will please you. It will make a block perfect in shape and true to size. Blocks are made face down, which is the proper way, and are carried from the machine on a wood pallet. These pallets are made from common lumber with a cleat nailed at each end, and can be made by anyone who can handle a saw and hammer.

The face down feature enables you to make the face of a better material than the backing of the block, improving the appearance and quality.

The core, which forms the air space, withdraws vertically after you turn the block. This makes it possible for you to use a wet mixture, which makes a better block than a dry mixture. The block will not collapse while turning, as is the case where the core is withdrawn first and the block then turned. While tamping the block the core is held securely in position by a simple latching device that is quickly released or locked. We can furnish the Triumph Block Machines for making blocks with either single or double air space. The style to use is largely a matter of personal choice.

Construction

The machine is mounted on a substantial stand securely connected by cross braces, which prevent all side play, making a solid, rigid machine.

The flask, or mold box, is readily locked or opened for making and releasing the blocks. The back wall and front wall are attached to the rockers by steel pivot pins. The face plate is attached to the rockers with bolts so it can be easily changed. Lugs on the endgates fit into ears on the end of the face plates so the endgates can be easily changed. The flask is locked by simple latches attached to the endgates.

To release the finished block the entire flask is turned over, the core withdrawn by pulling straight up, and the latches on endgates are released and the flask opened and turned back, which leaves the block entirely free, ready to be carried away on its pallet. To prepare the flask for the next block, simply put another pallet in place, raise the front wall to position and lock the latches.

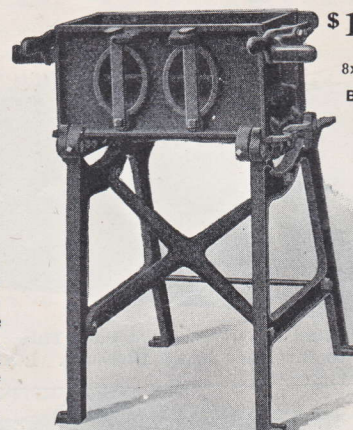
Capacity—One hundred to 125 blocks per day for two men, who mix the concrete, operate the machine and take care of the product.

Equipment

* We furnish each machine equipped with face plate and endgates for making standard rock face blocks, as illustrated on the right. If so stated in your order, we will furnish you with any one design shown on pages 6 and 7, instead of rock design, or you can purchase extra face plates of any design at prices shown on page 9. The outfit of parts shown to the left will enable you to make all the various styles of blocks illustrated to the right. All Triumph Concrete Block Making Outfits are shipped from factory in CENTRAL OHIO.

\$1965

For
8x8x16-
Inch
Blocks.



Style to Make Blocks With Double Air Space.

Each Triumph Concrete Block Outfit Will Make All These Blocks:



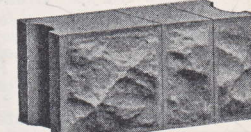
Rock Face Whole Block.



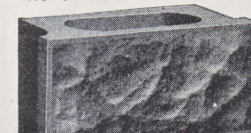
Rock Face Solid Block.



Rock Face Corner Block.



One filling of the mold makes one half block and two quarter blocks.



Rock Face Block with opening for joist.



Rock Face Gable Block.

Prices of Triumph Concrete Block Making Outfits for Blocks With Single Air Space.

- 63B5708—Triumph Concrete Block Making Outfit, to make blocks 8x8x16 inches, with single air space. Shipping weight, 155 pounds. Price.....\$19.40
- 63B5710—Triumph Concrete Block Making Outfit, to make blocks 8x10x16 inches, with single air space. Shipping weight, 200 pounds. Price.....\$28.10
- 63B5712—Triumph Concrete Block Making Outfit, to make blocks 8x12x16 inches, with single air space. Shipping weight, 225 pounds. Price.....\$29.25

Prices of Triumph Concrete Block Making Outfits for Blocks With Double Air Space.

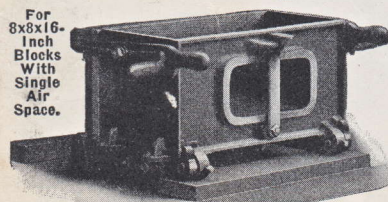
- 63B5709—Triumph Concrete Block Making Outfit, to make blocks 8x8x16 inches, with double air space. Shipping weight, 165 pounds. Price.....\$19.65
- 63B5711—Triumph Concrete Block Making Outfit, to make blocks 8x10x16 inches, with double air space. Shipping weight, 210 pounds. Price.....\$28.35
- 63B5713—Triumph Concrete Block Making Outfit, to make blocks 8x12x16 inches, with double air space. Shipping weight, 235 pounds. Price.....\$29.50

\$1660

Triumph Block Outfits for Use on Wood Bench

\$1685

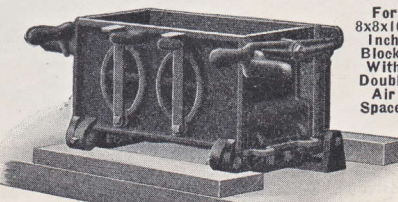
For
8x8x16-
Inch
Blocks
With
Single
Air
Space.



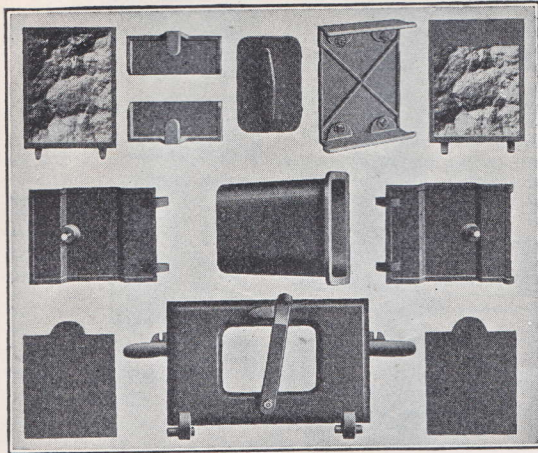
These outfits include the Triumph Block Machine described above, but instead of the iron stand we furnish a pair of hinge lugs to fasten the machine to a wood bench. In other respects the outfit is just the same and will make the same assortment of blocks. Shipped from factory in CENTRAL OHIO.

- 63B5716—Triumph Block Outfit, without stand, for 8x8x16-inch blocks with single air space. Shipping weight, 130 pounds. Price.....\$16.60
- 63B5717—Triumph Block Outfit, without stand, for 8x10x16-inch blocks with single air space. Shipping weight, 140 pounds. Price.....\$23.30
- 63B5718—Triumph Block Outfit, without stand, for 8x12x16-inch blocks with single air space. Shipping weight, 155 pounds. Price.....\$24.45
- 63B5704—Triumph Block Outfit, without stand, for 8x8x16-inch blocks with double air space. Shipping weight, 140 pounds. Price.....\$16.85
- 63B5705—Triumph Block Outfit, without stand, for 8x10x16-inch blocks with double air space. Shipping weight, 150 pounds. Price.....\$23.55
- 63B5706—Triumph Block Outfit, without stand, for 8x12x16-inch blocks with double air space. Shipping weight, 165 pounds. Price.....\$24.70

For
8x8x16-
Inch
Blocks
With
Double
Air
Space.



Specialties for the Triumph Block Machine



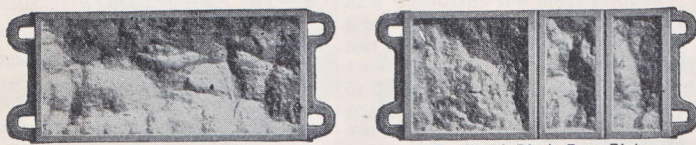
On this page we describe additional parts and attachments for the Triumph Block Machine. These are provided for the convenience of those who want to make a more complete line of products than can be made on the regular outfit.

Parts to Change Machine Size.

Should you desire to make another size of block on your Triumph Block Machine you can do so at small additional cost for a flask attachment of the proper size. Where there is a big demand for more than one size of block it is always advisable to purchase an adjustable block machine, such as the Knox Adjustable Machines described on pages 14 and 15, or to have a block machine for each size of block you want to make. In many cases, however, it would not be profitable to do this and in such cases these attachments will answer the purpose provided you already have a Triumph Block Machine. The attachment consists of a back wall with core, sample wood pallet, two core endgates and two rock (or other design) endgates, two dividing plates, two joist block attachments and core plug. The 8x10x16-inch and 8x12x16-inch attachments include a special endgate and plate for making blocks with 8x8-inch return end for turning corners. This breaks joints exactly in the center. Please do not order the flask attachment unless you have a Triumph Block Machine, because the attachment is not a complete mold and cannot be used alone to make blocks. State whether single or double core style is desired. Shipped from factory in CENTRAL OHIO.

63B5757 —Flask Attachment for 8x8x16-Inch Triumph Block Machine.	
Shipping weight, 110 pounds. Price.....	\$ 7.80
63B5758 —Flask Attachment for 8x10x16-Inch Triumph Block Machine.	
Shipping weight, 135 pounds. Price.....	11.70
63B5759 —Flask Attachment for 8x12x16-Inch Triumph Block Machine.	
Shipping weight, 165 pounds. Price.....	12.95

Face Plates for the Triumph Block Machine.



Whole Block Face Plate.

Fractional Block Face Plate.

Plates can be used in any Triumph Block Machine of any size. Rock design shown as illustration only. See pages 6 and 7 for the different designs we can furnish.

Whole Block Plates are used for making regular 16-inch blocks. If block is to be used on a corner, a return endgate must be ordered separately as listed below.

Circle Block Plates are curved plates in 16-inch length and make a block with curved face, conforming to circles of 12 feet, 16 feet, 20 feet or 24 feet in diameter. We always furnish plate for 16-foot circle unless ordered differently. These blocks are used for circular bay windows, towers or any circular wall which does not have to withstand a bursting strain, such as tanks or silos. For building tanks and silos which must be reinforced see our Silo Block Machines on page 20.

Fractional Face Plates are used to make less than a full 16-inch block and can be furnished with dividing lines for fractional blocks as follows:

Division A—Divided to make two 4-inch and one 8-inch block. This plate is illustrated above.

Division B—Divided to make two 8-inch blocks.

Division C—Divided to make one 4-inch block and one 12-inch block.

Division E—Divided to make full length block with one-half of face smooth, for blocks to be used in inside corners.

We always furnish plate divided to make one half block and two quarter blocks unless you order otherwise.

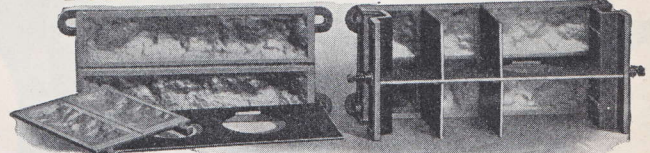
All plates weigh about 15 pounds and are shipped from factory in CENTRAL OHIO.

63B5721—Whole Block Face Plate for Triumph Block Machine. Shipping weight, 15 pounds. State design wanted. Price.....

63B5722—Fractional Block Face Plate for Triumph Block Machine. Shipping weight, 15 pounds. State design and division wanted. Price.....

63B5723—Circle Block Face Plate for Triumph Block Machine. Shipping weight, 15 pounds. State design and diameter wanted. Price.....

Four-Inch Course Block Attachments.



The 4-Inch Course Block Attachment is used for making blocks 4 inches high instead of the regular 8 inches. Two of these blocks are made with one filling of the mold box. The 4-inch blocks are used for lattice and porch work, and for belt courses around a building to break up the monotony of one style or size of block. The attachment consists of a face plate for making two whole blocks, one face plate for making two half and four quarter blocks, one pair core endgates, one return endgate to match the face plate, two dividing pallets and a set of four dividing plates for making half and quarter blocks. It is necessary to have one dividing pallet for every two course blocks you intend to make in a day. One of the course blocks rests on the regular pallet in the machine and the other on the dividing pallet. Be sure to order enough additional pallets for a day's output. This attachment is complete for making the regular blocks and return corner blocks in whole, half and quarter sizes.

We can furnish 4-Inch Course Block Attachments only in the following designs: Plain, rock, panel and tooled. Be sure to tell us whether your machine has one or two cores, what design you want and order the correct size. Shipped from factory in CENTRAL OHIO.

63B5726—Course Block Attachment for 8x8x16-Inch Triumph Block Machine. Shipping weight, 48 pounds. Price.....

63B5727—Course Block Pallet for 8x8x16-Inch Triumph Block Machine. Shipping weight, 6 pounds. Price.....

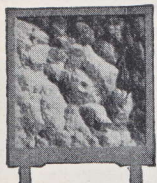
63B5736—Course Block Attachment for 8x10x16-Inch Triumph Block Machine. Shipping weight, 53 pounds. Price.....

63B5737—Course Block Pallet for 8x10x16-Inch Triumph Block Machine. Shipping weight, 8 pounds. Price.....

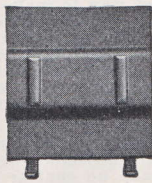
63B5746—Course Block Attachment for 8x12x16-Inch Triumph Block Machine. Shipping weight, 60 pounds. Price.....

63B5747—Course Block Pallet for 8x12x16-Inch Triumph Block Machine. Shipping weight, 10 pounds. Price.....

Endgates for Triumph Block Machine.



Rock Design Endgate.



Core Endgate.

To make blocks for corner use it is necessary to have endgates that match the face plates. In many cases but one gate is needed, as the blocks can be turned either way for right or left hand corners. Some designs are not reversible, however, and for these you require both right and left ends. Right and left are determined by facing the block machine in working position. Full information in regard to ends required for each design is given on pages 6 and 7.

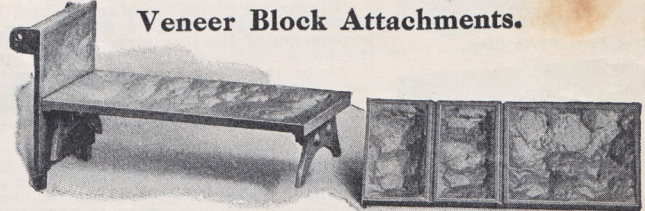
Be sure to tell us what size and design you want when you write your order. All endgates are shipped from factory in CENTRAL OHIO.

63B5723—Endgate for 8x8x16-Inch Triumph Block Machine. State design and whether right or left is wanted. Shipping weight, 7 pounds. Price.....

63B5733—Endgate for 8x10x16-Inch Triumph Block Machine. State design and whether right or left is wanted. Shipping weight, 9 pounds. Price.....

63B5743—Endgate for 8x12x16-Inch Triumph Block Machine. State design and whether right or left is wanted. Shipping weight, 11 pounds. Price.....

Veneer Block Attachments.



In many localities there is a demand for blocks 4 inches thick for veneering frame or brick buildings, or for building a two-piece wall with air space between, the blocks being tied together with metal ties. Our attachment consists of a special face plate mounted on a set of brackets which raises it up within 4 in. of the top of the mold box.

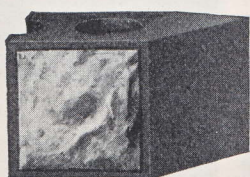
The plain or rock face plate and plain endgates must be used in the machine in connection with the veneer block attachment to make regular blocks, and a special endgate is provided for corner blocks. If your machine is not equipped with plain endgates, be sure to order them with the veneer block attachment. Price includes face plate for whole blocks, face plate for half and quarter blocks, two brackets on which face plate is supported and a special endgate for corner blocks. Be sure to mention design and order the proper size. Shipped from factory in CENTRAL OHIO.

63B5725—Veneer Block Attachment for 8x8x16-Inch Triumph Block Machine. Shipping weight, 35 pounds. Price.....

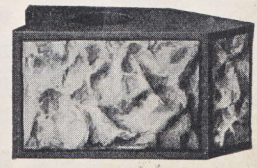
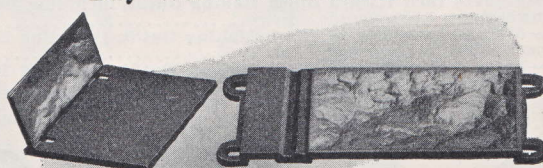
63B5735—Veneer Block Attachment for 8x10x16-Inch Triumph Block Machine. Shipping weight, 40 pounds. Price.....

63B5745—Veneer Block Attachment for 8x12x16-Inch Triumph Block Machine. Shipping weight, 45 pounds. Price.....

Bay Window Attachments.



Inside Corner Block.



Outside Corner Block.

To make blocks for bay window construction you require a special attachment as illustrated. The attachment consists of a special face plate and a special angle plate for making outside corner blocks. The angle plate is adjustable to any angle commonly used for bay windows. Nearly all bay windows are built at an angle of 45 degrees, and the attachment is therefore set for this angle. Inside corner blocks are made by using the regular half and quarter plates in the machine, in connection with the gable dividing plate, making block as shown. Be sure to state design wanted and order the proper size. Shipped from factory in CENTRAL OHIO.

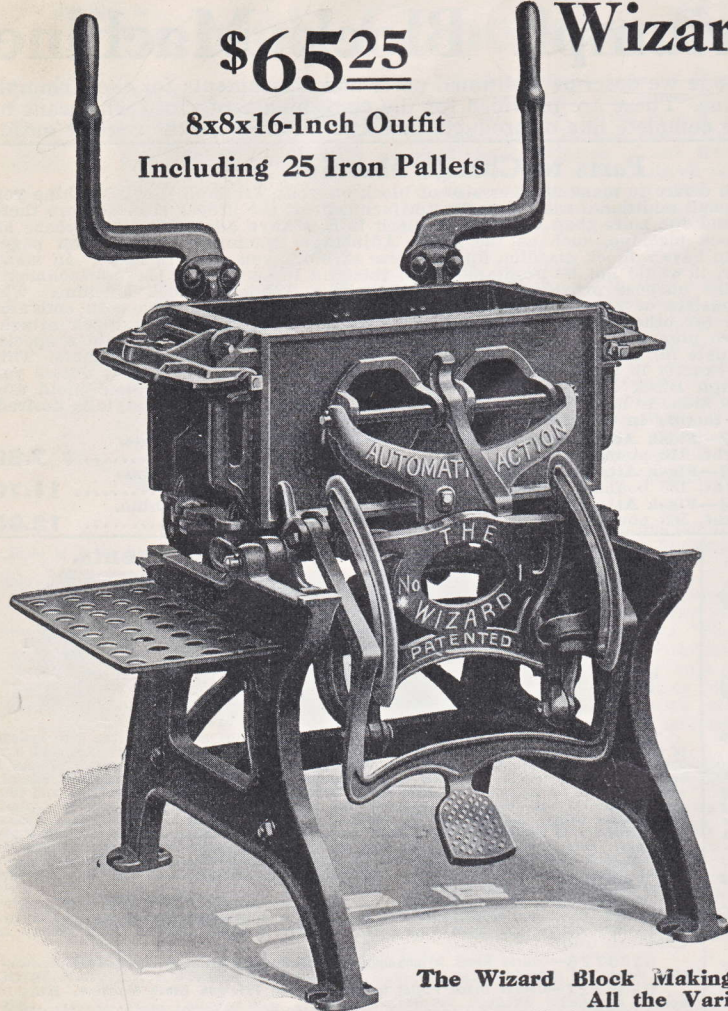
63B5724—Bay Window Attachment for 8x8x16-Inch Triumph Block Machine. Shipping weight, 30 pounds. Price.....

63B5734—Bay Window Attachment for 8x10x16-Inch Triumph Block Machine. Shipping weight, 35 pounds. Price.....

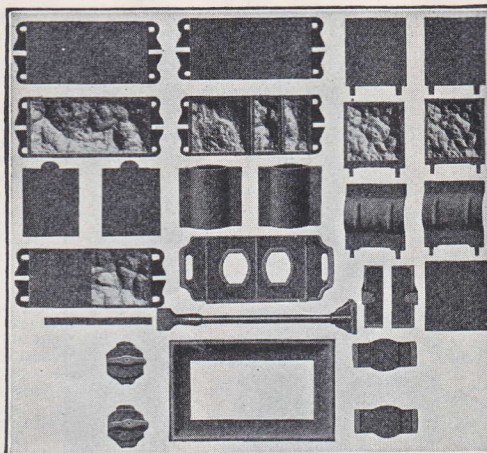
63B5744—Bay Window Attachment for 8x12x16-Inch Triumph Block Machine. Shipping weight, 40 pounds. Price.....

\$65²⁵

8x8x16-Inch Outfit
Including 25 Iron Pallets



Wizard Block Making Outfit



A Speedy Machine.

Reports from our customers who have bought the Wizard Block Machine show that one man can make from 100 to 150 perfect blocks per day (an average of 10 to 15 per hour) on the Wizard Block Machine and can do it day after day. Two men can make from 250 to 300 blocks per day.

You don't have to take our word for this. Order a Wizard Block Making Outfit and try it out yourself. If it does not prove as represented and give satisfaction in every respect, or if our price does not save you money, send the outfit back at our expense and we will return every cent of your money, including the freight charges you paid.

These Parts Go With Every Wizard Block Outfit at the Prices Listed.

Two Face Plates for making whole blocks, your choice of designs.
Two Face Plates for making half and quarter blocks, your choice of designs.
Two Core Endgates for making core ends on the blocks.
Four Return Endgates to match the face plates for making corner and pier blocks.
Two Plain Dividing Plates for making plain ends on half and quarter blocks.
Two Core Dividing Plates for making core ends on half and quarter blocks.
One Face Plate for making inside corner blocks.
Two Joist Block Attachments for making space for joists in the wall so joists can be put in position without cutting blocks.
One Dividing Plate for making gable blocks.
Two Wall Plugs for making solid blocks.
Two Pallet Plugs for making solid blocks.
One Strike-Off Tool for removing excess material when block is finished.
One Double End Tamper.
One Hopper.
Extra Cast Iron Pallets, as specified in price list.

The Wizard Block Making Outfits Listed Below Will Make All the Various Blocks Shown.

Each outfit is complete in every respect and the regular equipment furnished will make all the blocks shown on this page. The pictures on the bottom of the next page show how the Wizard is handled and you will be agreeably surprised at the speed with which you can make a block and take it from the machine and get the machine ready for another block. Operating handles are offset so you can use a facing feed table in back of the machine. See page 38 for a facing table for this machine.

Blocks are made face down, which is the best way to make a block. It permits the use of a fine rich mixture for the face, resulting in a waterproof block showing every impression of the face plate design. The cores take up one-third the total contents of the block, which is the standard of all concrete block authorities, and being elliptical in shape the block is much stronger than if made with square cores. The cores are automatically withdrawn as the mold box is turned over, so a wetter mixture can be used than in machines where the core is withdrawn horizontally. This insures a strong block and shortens the curing process.

Iron pallets are used as they are easy to handle, do not split, warp or swell and, barring accidents, will last forever. Every part subject to wear is adjustable, so the mold box can always be kept true and square no matter how long you use the machine. Should repair parts be needed we can furnish them at any time and at small cost. We guarantee to save you money on your purchase; we know you will make money on your products, and you will be assured of satisfaction by a concern known all over the country for fair and square dealing.

All Wizard Block Machine Outfits are packed to take lowest freight rates and are shipped from factory in CENTRAL OHIO. We guarantee safe delivery.

Price List of Wizard Block Making Outfits.

63B5501—8x8x16-Inch Wizard Block Making Outfit, including 25 iron pallets. Shipping weight, 590 pounds. Price.....	\$ 65.25
63B5506—8x8x16-Inch Wizard Block Making Outfit, including 100 iron pallets. Shipping weight, 1,100 pounds. Price.....	103.65
63B5502—8x9x16-Inch Wizard Block Making Outfit, including 25 iron pallets. Shipping weight, 650 pounds. Price.....	73.00
63B5507—8x9x16-Inch Wizard Block Making Outfit, including 100 iron pallets. Shipping weight, 1,325 pounds. Price.....	115.75
63B5503—8x10x16-Inch Wizard Block Making Outfit, including 25 iron pallets. Shipping weight, 725 pounds. Price.....	81.00
63B5508—8x10x16-Inch Wizard Block Making Outfit, including 100 iron pallets. Shipping weight, 1,550 pounds. Price.....	132.25
63B5504—8x12x16-Inch Wizard Block Making Outfit, including 25 iron pallets. Shipping weight, 850 pounds. Price.....	88.85
63B5509—8x12x16-Inch Wizard Block Making Outfit, including 100 iron pallets. Shipping weight, 2,100 pounds. Price.....	150.75

Blocks will actually measure 7 $\frac{1}{4}$ inches high and 15 $\frac{1}{4}$ inches long, allowance being made for $\frac{1}{4}$ -inch mortar joint.



Rock Face Whole Block.



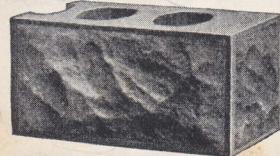
One half block and two quarter blocks, Rock design, made at one filling of the mold.



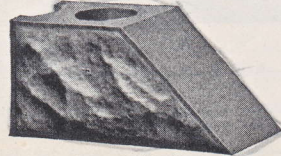
Rock Face Solid Block.



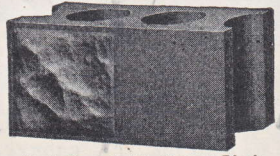
Rock Face Block with opening for joists.



Rock Face and End Corner Block.



Rock Face Gable Block.



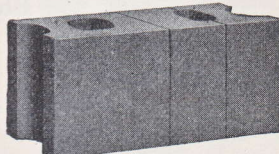
Rock Face Inside Corner Block.



Plain Face Gable Block.



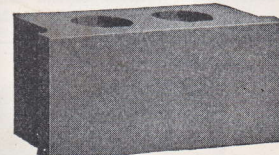
Plain Face Whole Block.



One half block and two quarter plain face blocks made at one filling of the mold.



Plain Face Solid Block.



Plain Face Block with opening for joists.



Plain Face and End Outside Corner Block.

Additional Supplies for the Wizard Block Machine

On this page we describe a number of additional parts and attachments for the Wizard Block Machine which will enable you to make a more complete line of products than can be made on the regular outfit.

Parts to Change Machine Size

Should you desire to make another size of block on your Wizard Block Machine you can do so at the small additional outlay for the flask attachment of the proper size. Where there is a big demand for more than one size of block it is always advisable to purchase an adjustable block machine such as the Knox Adjustable Machines described on pages 14 and 15, or have a block machine for each size of block you want to make. In many cases, however, it would not be profitable to do this and in such cases these attachments will answer the purpose provided you already have a complete machine. The attachment consists of a complete mold box, less the face plate, two pairs of endgates in rock and plain designs, a pair of core endgates, two plain dividing plates, two core dividing plates, two joist block attachments, one gable dividing plate and a set of wall and pallet plugs. The 8x9x16-inch, 8x10x16-inch and 8x12x16-inch attachments include a special endgate and plate for making blocks with 8x8-inch return end for turning corners. This breaks joints exactly in the center. Please do not order the flask attachment unless you have a Wizard Block Machine because the attachment is not a complete mold and cannot be used to make blocks. Shipped from factory in CENTRAL OHIO.

63B5511—8x8x16-Inch Wizard Flask Attachment. Shipping weight, 430 pounds.

Price\$42.70

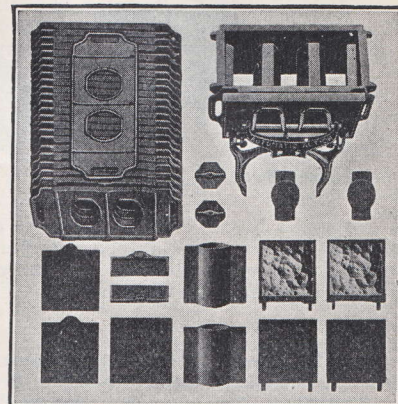
63B5512—8x9x16-Inch Wizard Flask Attachment. Shipping weight, 485 pounds.

Price\$50.45

63B5513—8x10x16-Inch Wizard Flask Attachment. Shipping weight, 560 pounds.....\$58.20

63B5514—8x12x16-Inch Wizard Flask Attachment. Shipping weight, 700 pounds.

Price\$65.95



Face Plates for the Wizard Block Machine



Whole Block Face Plate.



Fractional Block Face Plate.

A few extra face plates in various designs form a valuable addition to every concrete plant. These plates can be used in any Wizard Block Machine. See pages 6 and 7 for the different designs we can furnish.

WHOLE BLOCK PLATES are used for making regular 16-inch blocks. If block is to be used on a corner, a return endgate must be ordered separately as listed at the right.

CIRCLE BLOCK PLATES are curved plates and make a block with curved face, conforming to circles of 12 feet, 16 feet, 20 feet or 24 feet in diameter. We always furnish plate for 16-foot circle unless ordered differently. These blocks are used for circular bay windows, towers or any circular wall which does not have to withstand a bursting strain, such as tanks or silos. For building tanks or silos which must be reinforced see our silo block attachment on page 12.

FRACTIONAL FACE PLATES are used to make less than a full 16-inch block and can be furnished with dividing lines for fractional blocks as follows:

Division A—Divided to make two 4-inch blocks and one 8-inch block. This plate is illustrated above.

Division B—Divided to make two 8-inch blocks.

Division C—Divided to make one 4-inch block and one 12-inch block.

Division E—Divided to make full length block with one-half of face smooth, for blocks to be used in inside corners.

We always furnish plate divided to make one half block and two quarter blocks unless you order otherwise.

All plates weigh about 15 pounds and are shipped from factory in CENTRAL OHIO.

63B5521—Whole Block Face Plate for Wizard Block Machine. State design wanted. Shipping weight, 17 pounds. Price.....\$2.45

63B5522—Fractional Block Face Plate for Wizard Block Machine. State design and division wanted. Shipping weight, 17 pounds.

Price\$2.50

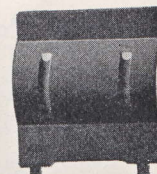
63B5523—Circle Block Face Plate for Wizard Block Machine. State design and diameter wanted. Shipping weight, 17 pounds.

Price\$2.55

Endgates for the Wizard Block Machine



Rock Endgate.



Core Endgate.

To make blocks for corner use it is necessary to have endgates that match the face plates. In many cases but one endgate is needed, as the blocks can be turned either way for right or left hand corners. Some designs are not reversible, however, and for these you require both right and left ends. Right and left are determined by facing the block machine as you make a block. Full information in regard to ends required is given on pages 6 and 7.

Be sure to tell us what size and design you want when you write your order. All endgates are shipped from factory in CENTRAL OHIO.

63B5531—8x8-Inch Endgate for Wizard Block Machine. State design and whether right or left is wanted. Shipping weight, 9 pounds.

Price\$1.65

63B5541—8x9-Inch Endgate for Wizard Block Machine. State design and whether right or left is wanted. Shipping weight, 10 pounds.

Price\$1.70

63B5551—8x10-Inch Endgate for Wizard Block Machine. State design and whether right or left is wanted. Shipping weight, 11 pounds.

Price\$1.75

63B5561—8x12-Inch Endgate for Wizard Block Machine. State design and whether right or left is wanted. Shipping weight, 16 pounds.

Price\$1.85

Extra Pallets for Wizard Block Machine

The block must rest on the pallet till hard enough to move, which usually requires 24 hours.

63B5537—Pallets for 8x8x16-inch blocks. Shipping weight, each, 7 pounds.

Price, each\$ 0.53

Price, per hundred.....\$2.00

63B5547—Pallets for 8x9x16-inch blocks. Shipping weight, each, 9 pounds.

Price, each\$ 0.57

Price, per hundred.....\$6.00

63B5557—Pallets for 8x10x16-inch blocks. Shipping weight, each, 11 pounds.

Price, each\$ 0.69

Price, per hundred.....\$6.00

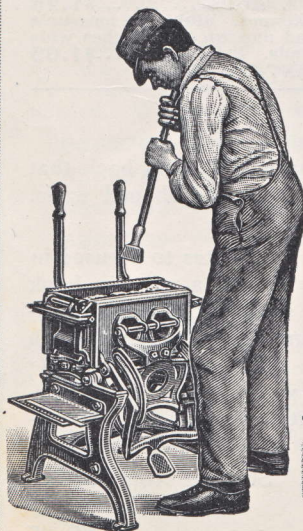
63B5567—Pallets for 8x12x16-inch blocks. Shipping weight, each, 16 pounds.

Price, each\$ 0.81

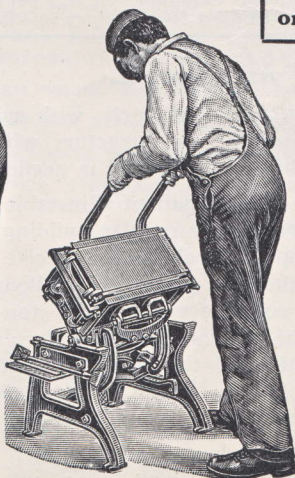
Price, per hundred.....\$8.00

Additional supplies are shown on the following page.

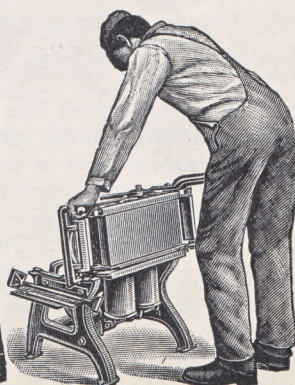
The mold box is turned, block released and mold box turned back without letting go of lever handles or moving away from the machine. No lost motion or wasted energy. Pallets made with handles. No carrier to fuss with.



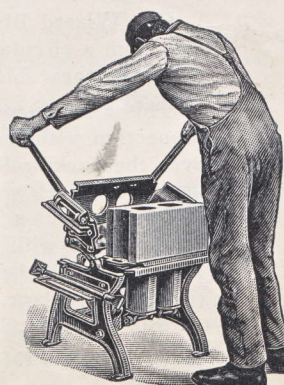
Tamping the Material Face Down.



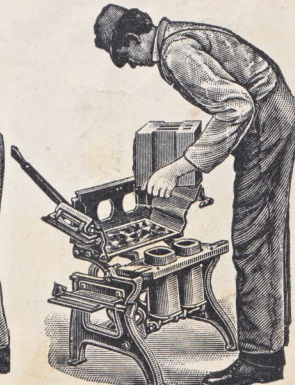
Turning Flask.



Spreading Endgates.



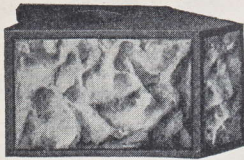
Releasing Block.



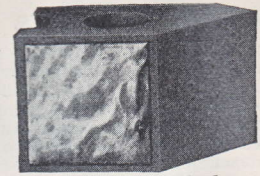
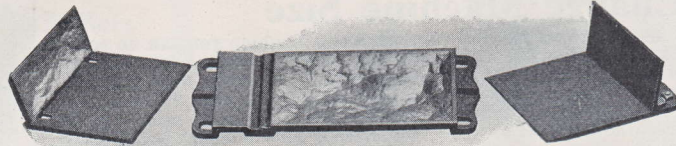
Lifting Out Block.

Extra Attachments for Wizard Block Machine

Bay Window Attachments



Outside Angle Block.



Inside Angle Block.

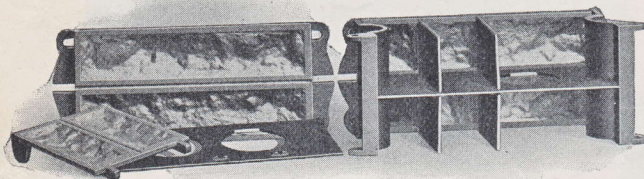
To make blocks for bay window construction you require a special attachment as illustrated. The attachment consists of a special face plate and a special angle plate for making outside corner blocks, and an angle plate for inside corner blocks. The angle plate is adjustable to any angle commonly used for bay windows. Be sure to state design wanted and order the proper size. Shipped from factory in CENTRAL OHIO.

Price List

63B5533—Bay Window Attachment for 8x8x16-Inch Wizard Block Machine. Shipping weight, 35 pounds. Price.....\$5.70
63B5543—Bay Window Attachment for 8x9x16-Inch Wizard Block Machine. Shipping weight, 40 pounds. Price.....\$6.00

63B5553—Bay Window Attachment for 8x10x16-Inch Wizard Block Machine. Shipping weight, 45 pounds. Price.....\$6.40
63B5563—Bay Window Attachment for 8x12x16-Inch Wizard Block Machine. Shipping weight, 50 pounds. Price.....\$6.70

Four-Inch Course Block Attachments.

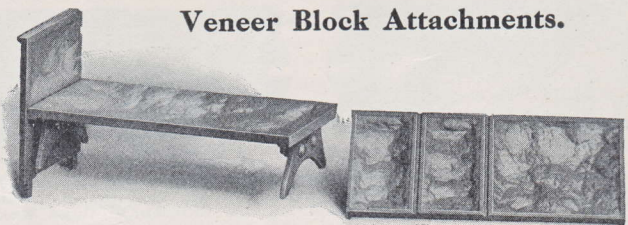


The 4-Inch Course Block Attachment is used for making blocks 4 inches high instead of regular 8 inches. Two of these blocks are made with one filling of the mold box. The 4-inch blocks are used for lattice and porch work, and for belt courses around a building to break up the monotony of one style or size of block. The attachment consists of a face plate for making two whole blocks, one face plate for making two half and four quarter blocks, one pair core endgates, one return endgate to match the face plate, two dividing pallets and a set of four dividing plates for making half and quarter blocks. It is necessary to have one dividing pallet for every two course blocks you intend to make in a day. One of the course blocks rests on the regular pallet in the machine and the other on the dividing pallets. Be sure to order enough additional pallets for a day's output. This attachment is complete for making the regular blocks and return corner blocks in whole, half and quarter sizes.

We can furnish 4-Inch Course Block Attachments only in the following designs: Plain, rock, panel and tooled. Be sure to tell us what design you want and order the correct size. Shipped from factory in CENTRAL OHIO.

63B5535—Course Block Attachment for 8x8x16-Inch Wizard Block Machine. Shipping weight, 70 pounds. Price.....\$11.35
63B5536—8x16-Inch Course Block Pallet. Shipping weight, 7 pounds. Price, each.....50c
63B5545—Course Block Attachment for 8x9x16-Inch Wizard Block Machine. Shipping weight, 75 pounds. Price.....\$11.85
63B5546—9x16-Inch Course Block Pallet. Shipping weight, 8 pounds. Price, each.....57c
63B5555—Course Block Attachment for 8x10x16-Inch Wizard Block Machine. Shipping weight, 95 pounds. Price.....\$12.25
63B5556—10x16-Inch Course Block Pallet. Shipping weight, 10 pounds. Price, each.....69c
63B5565—Course Block Attachment for 8x12x16-Inch Wizard Block Machine. Shipping weight, 115 pounds. Price.....\$12.60
63B5566—12x16-Inch Course Block Pallet. Shipping weight, 11 pounds. Price, each.....80c

Veneer Block Attachments.



In many localities there is a demand for blocks 4 inches thick for veneering frame or brick buildings or for building a two-piece wall with air space between, the blocks being tied together with metal ties. Our attachment consists of a special face plate mounted on a pair of brackets, which raises it up to within 4 inches of the top of the mold box, face plate for half and quarter blocks and a special endgate for corner blocks. The plain or rock face plate and plain endgates as furnished with the machine must be used in connection with the veneer block attachment. If your machine is not equipped with plain endgates be sure to order them with the veneer block attachment. Be sure to mention design and order the proper size. Shipped from factory in CENTRAL OHIO.

63B5534—Veneer Block Attachment for 8x8x16-Inch Wizard Block Machine. Shipping weight, 50 pounds. Price.....\$8.15
63B5544—Veneer Block Attachment for 8x9x16-Inch Wizard Block Machine. Shipping weight, 55 pounds. Price.....\$8.45
63B5554—Veneer Block Attachment for 8x10x16-Inch Wizard Block Machine. Shipping weight, 60 pounds. Price.....\$8.70
63B5564—Veneer Block Attachment for 8x12x16-Inch Wizard Block Machine. Shipping weight, 70 pounds. Price.....\$9.00

Tampers.



Extra tampers for making blocks and other products. Well made of No. 1 gray iron castings, nicely finished and securely mounted on hardwood handles. We have two sizes. Be sure to order correct size.

63B5676—Regular Double End Tamper. Blunt end measures 2 7/8 inches wide and 1 1/2 inch thick; large end measures 2 1/2 inches wide and 4 inches long. Shipping weight, 5 pounds. Price.....\$1.25
63B5677—Extra Heavy Double End Tamper. Blunt end measures 4 inches wide and 1 1/2 inches thick; large end measures 3 3/8 inches wide and 4 1/2 inches long. Shipping weight, 9 pounds. Price.....\$1.65
 All tampers shipped from factory in CENTRAL OHIO.

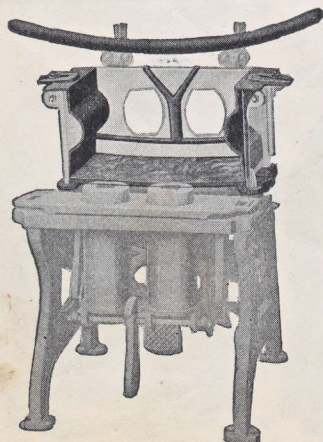
Silo Block Attachment.

Our Wizard Block Machine can be used for making blocks with curved face and back that will form a circular wall suitable for silos, tanks or any structure with circular shaped walls. To make these blocks the special silo attachment illustrated is needed.

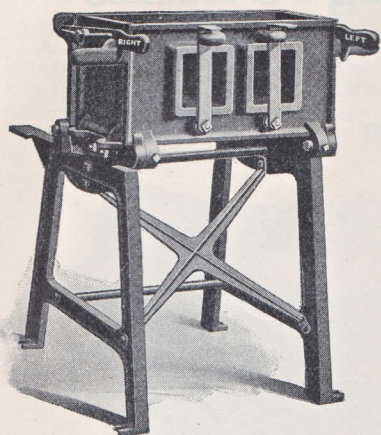
This attachment consists of a curved face plate, a pair of adjustable end plates to be used in connection with the plain endgates on the machine for regular building blocks, a yoke to hook over the back wall for forming groove in top of block, and a special strike off tool for striking off the back wall with a curve to match the face plate. When laying the blocks made with this attachment a No. 8 wire is laid in the groove formed in the top of the block and the groove filled with a rock cement mortar. The blocks are also laid up with a rich cement mortar to provide the necessary strength to withstand the strain brought against it by the setting of the silage. This attachment is suitable only for the 8x8x16-Inch Wizard Block Machine.

Silo blocks are made on the same pallets used for building blocks. Shipped from factory in CENTRAL OHIO. Shipping weight, 40 pounds.

63B5539—Wizard Silo Block Attachment for Wizard Block Machine. Price.....\$8.55



Concrete Blocks for Corn Cribs



Back view of machine showing method of holding cores in place.

The special blocks made in this machine are designed particularly for corn crib construction. The blocks are laid with the large opening outside, the sloping side of the opening down. This provides ventilation, prevents rain from beating in and drains all water to the outside. Each machine is furnished complete, ready to use, and with necessary equipment for making whole and half size blocks.

The blocks measure 8x8x16 inches, with 1/4-inch mortar joint. The openings measure 4 inches by 4 inches on the outside, tapering to 3 3/4 x 2 7/8 inches on the inside. The blocks are made with the face to the side and are delivered face up. The bottom plate of the mold box is provided with a ridge, which molds a groove in the top of the block in which a reinforcing rod can be placed to provide for any internal strain that may be brought to bear on the walls. The mold box is securely held together by two simple latches which are easily released for removing block from machine.

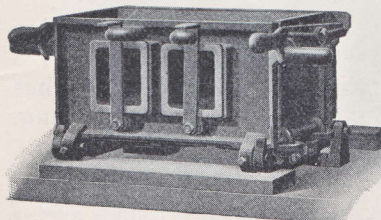
For the foundation these same blocks can be used, laying them in the wall with the openings up and down instead of horizontally. A corn crib built of these blocks, and with a concrete floor, will be everlasting and means freedom from

rats and mice which usually nest under the old type of insanitary wooden crib. Shipped from factory in CENTRAL OHIO.

63B5615—Corn Crib Block Machine, complete with stand.

Shipping weight, 130 pounds. Price.....**\$19.40**

Corn Crib Block Machine Without Stand.



This machine is made up like the machine or stand illustrated above, but is provided with a pair of brackets so it can be fastened to a plank and used on the ground or on a wood bench.

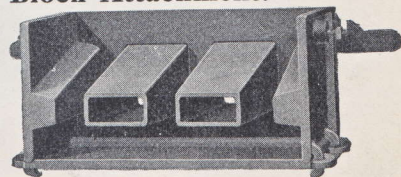
The complete machine on stand is more convenient, although this outfit will answer the purpose if you wish a low priced machine. Shipped from factory in CENTRAL OHIO.

63B5616—Corn Crib Block Machine, without stand. Shipping weight, 85 pounds. Price.....**\$13.95**

Corn Crib Block Attachment.

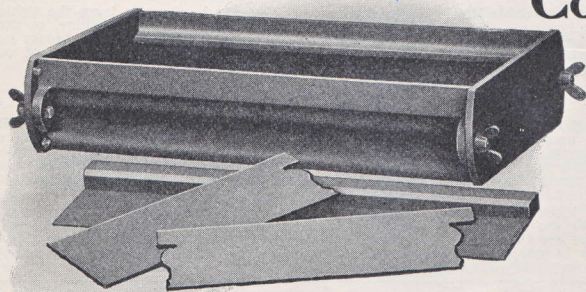
To Be Used on Our Triumph Block Machine.

If you have one of our Triumph Building Block Machines this attachment can be placed on it in connection with some parts of the block machine and it will make the corn crib block illustrated above. Please remember that the attachment cannot be used unless you already have or are ordering a Triumph Block Machine, shown on page 8. Shipped from factory in CENTRAL OHIO.



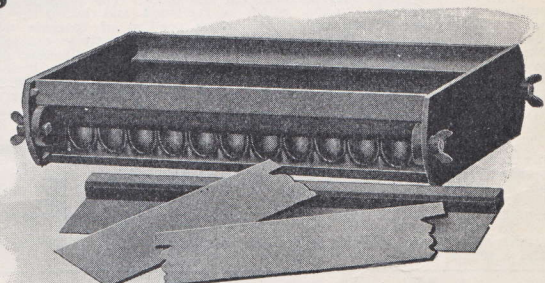
63B5617—Corn Crib Block Attachment. Shipping weight, 65 pounds. Price.....**\$8.30**

Coping Molds



Plain Design Coping Mold.

These molds make a coping stone that can be used to good advantage on any concrete wall. Each mold will make stones 2 feet long, 5 inches thick, 10 inches wide at bottom and 11 1/4 inches wide at top. Both 24-inch side plates of these molds are alike, so stones with ornamental front and back can be made, which is a very desirable feature when cap stone for a concrete block fence is desired. If stone is to be used as coping on a flat roof building, so only one ornamental face is required, the long filler plate is inserted against the back plate. To turn corners the dividing plate is placed diagonally across one corner, making a stone with mitered end. Miter plates are furnished to make miter ends on stones where one or both sides are ornamental. To make one end and both sides with design as would be required in porch rail and fence work, the special end plate is needed. We especially recommend the Egg and Dart design. Shipped from factory in CENTRAL OHIO.



Egg and Dart Design Coping Mold.

63B5767—Egg and Dart Coping Mold, complete with filler and dividing plates. Shipping weight, 65 pounds. Price.....**\$7.70**

63B5766—Egg and Dart End Plate. Shipping weight, 12 pounds. Price.....**2.60**

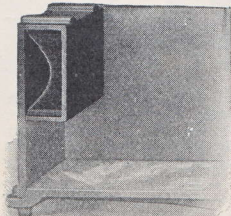
63B5768—Plain Design Coping Mold, complete with filler and dividing plates. Shipping weight, 65 pounds. Price.....**7.50**

63B5769—Plain End Plate. Shipping weight, 12 pounds. Price.....**2.50**

Window Jamb Block Attachment.

For Any of Our Block Machines.

This attachment is hung over a plain endgate in the machine and enables you to make a block with opening as shown in illustration at the right, which is just the proper size to hold a stock window frame for concrete block buildings. To use this attachment you must have a plain endgate for your machine, so be sure to order one unless you already have it. The offset measures 3 1/4 inches from the face of the block and is 2 inches wide as shown. This attachment is made for blocks 8 inches high. Be sure to order the proper size for your block machine. Shipped from factory in CENTRAL OHIO.



63B5606—8-Inch Jamb Block Attachment for blocks 8 inches thick. Shipping weight, 8 pounds. Price.....**95c**

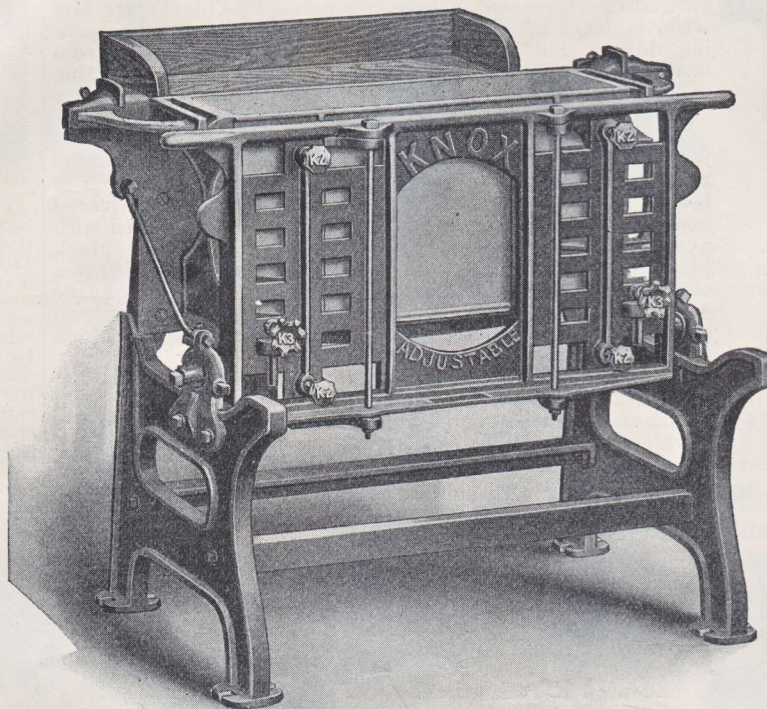
63B5607—9-Inch Jamb Block Attachment for blocks 9 inches thick. Shipping weight, 10 pounds. Price.....**\$1.00**

63B5608—10-Inch Jamb Block Attachment for blocks 10 inches thick. Shipping weight, 12 pounds. Price.....**\$1.10**

63B5609—12-Inch Jamb Block Attachment for blocks 12 inches thick. Shipping weight, 15 pounds. Price.....**\$1.20**

Knox Adjustable Block Making Outfits

**Outfits
in
Three
Sizes**



**\$91⁷⁵
AND UP**

This shows machine adjusted for blocks 8 inches high, 12 inches thick and 24 inches long.

The Knox Adjustable Block Machine is an exceedingly simple, easy working machine and can be quickly adjusted to make blocks up to 24 inches in length and in widths of 4, 6, 8, 10 and 12 inches, all 8 inches high.

Quick, simple adjustment for any size block is provided on the Knox Adjustable Block Machine. Referring to illustration above you will notice four vertical rows of five rectangular holes each. These holes are accurately spaced to hold the brackets on which the face plate is mounted.

Adjustment for Length.

The face plate controls the length of the block. The brackets are securely held in position by means of a wedge which is tightened and locked by hand wheel screws marked K3 in the illustration, which shows position of brackets set for 24-inch face plate. Moving the right hand bracket into the hole directly to the left sets the machine for 20-inch face plates. Moving the left hand bracket into the hole directly to the right sets the machine for 16-inch face plates. Any length under 16-inch is provided by division lines on the face plate which holds the lower end of a dividing plate, while the upper end is held by a special hopper and guide furnished with the machine.

Adjustment for Width.

As blocks are made face down in the Knox Adjustable Block Machine, the depth of the mold box controls the thickness of block. The illustration shows machine set for making blocks 12 inches thick. To make blocks 10 inches thick the face plate brackets are moved up one hole. Moving the brackets up to the next hole makes blocks 8 inches thick. The next hole sets the machine for blocks 6 inches thick, and the top hole for veneer blocks 4 inches thick. All these adjustments can be made quickly and easily.

In the illustration on the following page you will notice that the K3 adjusting screws are changed so that the machine will make a block 20 inches long, 8 inches thick and 8 inches high.

Capacity.

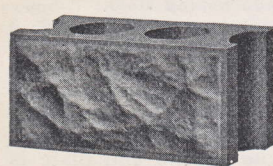
The Knox Adjustable Block Machine is so built that the harder you tamp the tighter the mold box holds together. This simplicity makes it a quick working machine, so that two men under ordinary conditions can easily make up to 200 8x8x16-inch blocks per day and nearly as many of the larger sizes. We have had reports from some of our customers who have done even better than this.

Uses Wood or Iron Pallets.

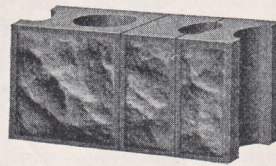
Wood pallets have no core openings and on this account will not warp or split readily. The part of the machine on which the pallet rests is adjustable for pallets of variable thickness, so the pallets need only be made nearly like the sample furnished with each outfit and they can be used. This makes it possible for anyone to make the pallets from practically any kind of lumber and enables you to keep the pallet tight up against mold box.

As many block makers prefer to use iron pallets the Knox Adjustable Block Machine is arranged to use iron pallets also, which we can furnish at a reasonable price. The finished blocks are taken from the machine on the pallet without using a carrier of any kind. Pallets 24 inches long can be used for blocks of any length, making it unnecessary to provide a supply of pallets for each size of block.

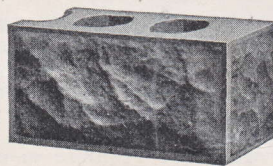
These illustrations show the variety of blocks that can be made with any Knox Block Making Outfit.



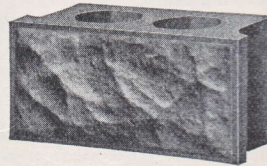
Whole Stretcher Block.



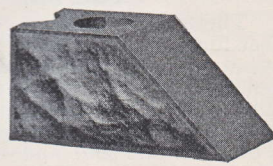
One half block and two quarter blocks at one operation.



Corner Block.



Block with opening for floor joists.



Gable Block.

All these blocks can also be made solid or without core openings.

Any design shown on pages 6 and 7 can be ordered in place of rock face shown above if desired.

OUTFITS IN THREE SIZES.

We furnish the Knox Adjustable Block Making Outfits in three different sizes, namely, for blocks 16 inches in length, 20 inches in length and 24 inches in length. You will note by referring to the prices quoted below just what can be done on these different size outfits, and on the opposite page we illustrate the different movements necessary in making a block in the Knox Adjustable Block Machine. We also illustrate on the

opposite page the Knox Machine adjusted to make an 8x8x20-inch block, whereas the illustration above shows the machine set for making an 8x12x24-inch block.

NOTE—All block sizes are actually $\frac{1}{4}$ inch less than measurements given for height and length, allowance being made for standard $\frac{1}{4}$ -inch mortar joint.

Knox Block Making Outfit for Blocks 16 Inches Long.

63B5928—Complete 16-Inch Knox Block Making Outfit. Will make blocks 2, 4, 6, 8, 12 and 16 inches in length and any of these lengths 4, 6, 8, 10 and 12 inches in thickness, all 8 inches high. Shipping weight, 675 pounds.

Price\$91.75

Knox Block Making Outfit for Blocks 20 Inches Long.

63B5934—Complete 20-Inch Knox Block Making Outfit. Will make twelve sizes of rock face blocks. Lengths, 5, 10, 15 and 20 inches and any of these lengths 8, 10 and 12 inches in thickness, all 8 inches high. Shipping weight, 750 pounds. Price.....\$95.65

Knox Block Making Outfit for Blocks 24 Inches Long.

63B5933—Complete 24-Inch Knox Block Making Outfit. Will make blocks 2, 4, 5, 6, 8, 10, 12, 16, 18, 20 and 24 inches in length and any of these lengths 4, 6, 8, 10 and 12 inches in thickness, all 8 inches high. Shipping weight, 1,075 pounds.

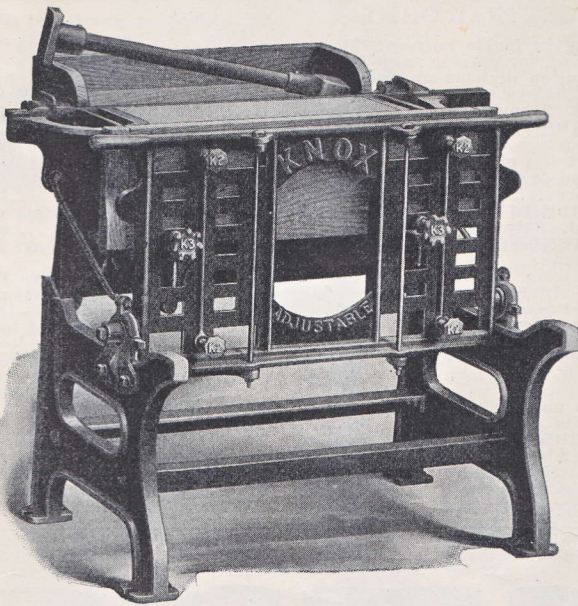
Price\$151.85

All Knox Block Making Outfits are shipped from factory in CENTRAL OHIO.

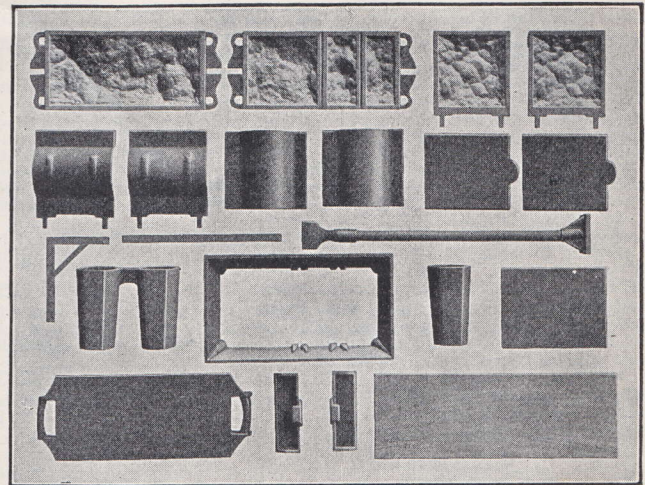
Single Machines if Wanted

A number of our customers have asked us to sell them a Knox Adjustable Block Making Machine to make just one size of block, so they could start with one size and add from time to time the parts necessary to make different sizes and

varieties of blocks. To meet this demand we quote below block machines in the 16, 20 and 24-inch sizes, with equipment for only one size block, in varieties as shown on page 14. You can add equipment for other sizes as you need them.



Note position of hand wheels K3 in the above illustration as compared with position of wheels in illustration on page 14. In the above they have been changed so that the machine will make a block 8x8x20 inches in size. The Knox Block Machine can be changed very easily from one size to another so that one machine is sufficient to make practically any size of block for which there is a common demand. If you want to make more than one size and are unable to select an outfit for your purpose, tell us what sizes of blocks you want to make and we will quote a price on an outfit to do the work.



The above illustrates the standard outfit furnished with the Knox Adjustable Block Machine for making one size of block in whole, half and quarter sizes. Commencing with top row and reading from left to right these parts are as follows:

- | | |
|--|--|
| One Rock Face Plate for whole blocks. | One Striker to scrape off extra material when block is finished. |
| One Rock Face Plate for half and quarter blocks. | One Double End Tamper. |
| Two Rock Endgates for corner and pier blocks. | One Double Core for air space in whole blocks (24-inch machines have triple core forming three air spaces in block.) |
| Two Cored Endgates for regular stretcher blocks. | One Combination Hopper and Guide for dividing plates. |
| Two Cored Dividing Plates for half or quarter blocks with core ends. | One Single Core for air space in half blocks. |
| Two Plain Dividing Plates for half or quarter blocks with straight ends. | One Dividing Plate for making gable blocks. |
| One Iron Try Square to enable you to adjust flask true and square. | One Sample Iron Pallet. |
| | Two Joist Block Attachments. |
| | One Sample Wood Pallet. |

Price List of Single Machines.

All Shipped From Factory in CENTRAL OHIO.

After you receive any of these single machines you can order additional supplies as listed on page 16 to make any other sizes or kind of blocks you may desire.

Machine for Blocks 16 Inches Long.

6385925—8x8x16-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 425 pounds. Price.....**\$51.90**
6385926—8x10x16-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 440 pounds. Price.....**\$53.50**
6385927—8x12x16-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 460 pounds. Price.....**\$54.20**

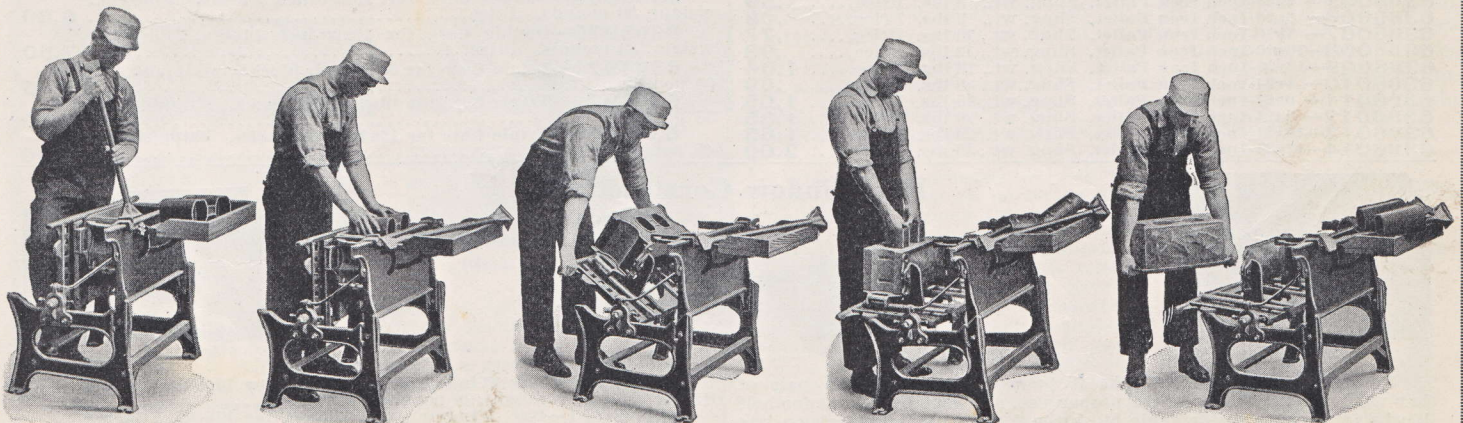
Machine for Blocks 20 Inches Long.

6385935—8x8x20-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 440 pounds. Price.....**\$54.20**
6385936—8x10x20-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 460 pounds. Price.....**\$56.90**
6385937—8x12x20-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 480 pounds. Price.....**\$57.60**

Machine for Blocks 24 Inches Long.

6385930—8x8x24-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 475 pounds. Price.....**\$58.35**
6385931—8x10x24-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 500 pounds. Price.....**\$59.75**
6385932—8x12x24-Inch Knox Block Machine. Will make whole, half and quarter size blocks in all varieties shown on opposite page. Shipping weight, 540 pounds. Price.....**\$60.45**

The first figure in the size is the height of block, the second figure is the width or thickness from front to back, and the last figure is the length; ¼ inch allowed for mortar joint.



A block is started and tamped in the Knox Adjustable Block Machine in the same manner as in any other machine.

Inserting the core. The double core is in one piece and can be dropped in place as easily and quickly as operating a lever. Single, double and triple cores are illustrated on page 16.

Releasing the block. The front wall is pulled forward, thus turning block over on the pallet. The block is well supported by the ends and core while being turned.

The endgates have been lifted from block and placed on tool shelf. Core is being drawn out. Note that core is pulled out vertically, which permits the use of a wet mixture to make the block.

The block is finished and carried away on the pallet. A new pallet is then placed in position, the endgates slipped back and the front wall lifted in position to make ready for another block. No complicated levers or latches to fuss with or cause trouble.

Additional Supplies for Knox Block Machine

All items on this page are shipped from factory in CENTRAL OHIO.



Face Plate for Whole Blocks.

63B5940—16-Inch Face Plate for whole blocks. Mention design wanted. Shipping weight, 17 pounds. Price.....\$2.45

63B5941—16-Inch Face Plate, divided to make fractional blocks as follows:

Division A—Divided to make two 4-inch blocks and one 8-inch block. Division B—Divided to make two 8-inch blocks. Division C—Divided to make one 4-inch block and one 12-inch block. Division D—Divided to make one 2-inch block, one 6-inch block and one 8-inch block. Division E—Divided to make full length block with half of face smooth, for use in inside corners. Division F—With division line 12 inches from end, for outside angle bay window blocks.

Mention division and design wanted, otherwise we will send division A, divided for one 8-inch block and two 4-inch blocks. Shipping weight, 17 pounds.

Price\$2.50

63B5942—16-Inch Circle Face Plate for curved face blocks for circular bay windows and silos. Furnished to conform with circles of 16, 20 or 24-foot diameter and in plain and rock design. Mention design and radius wanted. Shipping weight, 17 pounds.

Price\$2.55

63B5944—20-Inch Face Plate for whole blocks. Mention design wanted. Shipping weight, 21 pounds. Price.....\$3.15

63B5945—20-Inch Face Plate, divided to make fractional blocks as follows:

Division A—Divided to make two 5-inch blocks and one 10-inch block. Division C—Divided to make one 5-inch and one 15-inch block. Division E—Divided to make full length block with half of face smooth,

Face Plates.

A few additional face plates in various designs should be on hand in every block plant. We can furnish three sizes of plates for the Knox machine and each size can be had for making whole blocks or fractional blocks in various lengths as listed. All plates are shipped from factory in CENTRAL OHIO.



Face Plate for Fractional Blocks.

for use in inside corners. Division F—With division line 15 inches from end, for outside angle bay window blocks.

Mention division and design wanted, otherwise Division A for one 10-inch block and two 5-inch blocks will be furnished. Shipping weight, 21 pounds. Price.....\$3.20

63B5946—20-Inch Circle Face Plate for curved face blocks for circular bay windows and silos. Furnished to make blocks to conform with circles of 16, 20 or 24-foot diameter and in rock and plain designs. Mention design and radius wanted. Shipping weight, 21 pounds.

Price\$3.25

63B5947—24-Inch Face Plate for whole blocks. Mention design wanted. Shipping weight, 26 pounds. Price.....\$3.85

63B5948—24-Inch Face Plate, divided to make fractional blocks as follows:

Division A—Divided to make two 6-inch blocks and one 12-inch block. Division B—Divided to make two 12-inch blocks. Division C—Divided to make one 6-inch and one 18-inch block. Division D—Divided to make one 8-inch and one 16-inch block. Division E—Divided to make full length block with half of face smooth, for use in inside corners. Division F—With division line 18 inches from end, for outside angle bay window blocks. Plate, Division A, for two 6-inch blocks and one 12-inch block will be furnished unless otherwise ordered. Mention design and division wanted. Shipping weight, 26 pounds.

Price\$3.90

63B5949—24-Inch Circle Face Plate for curved face blocks for circular bay windows and silos. Furnished to make blocks to conform with circles of 16, 20 or 24-foot diameter and in rock and plain designs. Mention design and radius wanted. Shipping weight, 26 pounds.

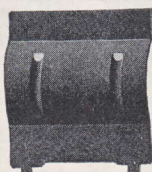
Price\$3.95



Rock Design Endgate.

Endgates.

All endgates for the Knox Block Machine are interchangeable and can be furnished in any design for corner blocks, and in cored style for regular stretcher blocks. Be sure to tell us what style or design and order the correct size.



Cored Endgate.

63B5950—8x4-Inch Endgate for veneer blocks 4 inches thick. Shipping weight, 6 pounds. Price, each.....\$1.35

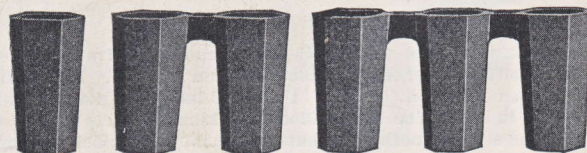
63B5951—8x6-Inch Endgate for veneer blocks 6 inches thick. Shipping weight, 7 pounds. Price, each.....1.40

63B5952—8x8-Inch Endgate for blocks 8 inches thick. Shipping weight, 8 pounds. Price, each.....1.65

63B5953—8x10-Inch Endgate for blocks 10 inches thick. Shipping weight, 10 pounds. Price, each.....1.75

63B5954—8x12-Inch Endgate for blocks 12 inches thick. Shipping weight, 12 pounds. Price, each.....1.85

Cores.



Single Core.

Double Core.

Triple Core.

To make the proper air space in the various sizes of blocks it is advisable to have a core for each size of block you make. All cores are made for blocks 8 inches high, the measurements given in the price list being the thickness or width and the length of block. Be sure to select correct size and mention correct catalog number.

63B5960—Single Core for 8x8-inch blocks. Shipping wt., 10 pounds. Price.....\$2.10

63B5961—Single Core for 8x10 or 8x12-inch blocks. Shipping weight, 12 pounds. Price.....3.00

63B5963—Single Core for 10x10 or 10x12-inch blocks. Shipping weight, 15 pounds. Price.....3.10

63B5964—Single Core for 12x12-inch blocks. Shipping weight, 18 pounds. Price.....3.20

63B5965—Double Core for 8x15, 8x16 or 8x18-inch blocks. Shipping weight, 20 pounds. Price.....4.10

63B5966—Double Core for 10x15, 10x16 or 10x18-inch blocks. Shipping weight, 30 pounds. Price.....4.80

63B5967—Double Core for 12x15, 12x16 or 12x18-inch blocks. Shipping weight, 35 pounds. Price.....5.45

63B5968—Double Core for 8x20-inch blocks. Shipping wt., 25 pounds. Price.....4.45

63B5969—Double Core for 10x20-inch blocks. Shipping weight, 30 pounds. Price.....6.80

63B5970—Double Core for 12x20-inch blocks. Shipping weight, 35 pounds. Price.....7.50

63B5971—Triple Core for 8x24-inch blocks. Shipping wt., 30 pounds. Price.....7.05

63B5972—Triple Core for 10x24-inch blocks. Shipping wt., 35 pounds. Price.....8.20

63B5973—Triple Core for 12x24-inch blocks. Shipping wt., 45 pounds. Price.....8.90

Iron Pallets.

The Knox Block Machine uses wood pallets, but as many prefer to use iron pallets we are prepared to furnish them in many sizes at prices shown below.

Be sure to give correct number and order the proper size.

63B6000—4x16-Inch Iron Pallet. Shpg. wt., 5 lbs. Price.....\$0.50

63B6001—6x16-Inch Iron Pallet. Shpg. wt., 6 lbs. Price......59

63B6002—8x16-Inch Iron Pallet. Shpg. wt., 7 lbs. Price......61

63B6003—10x16-Inch Iron Pallet. Shpg. wt., 11 lbs. Price......66

63B6004—12x16-Inch Iron Pallet. Shpg. wt., 16 lbs. Price......80

63B6005—4x20-Inch Iron Pallet. Shpg. wt., 8 lbs. Price......59

63B6006—6x20-Inch Iron Pallet. Shpg. wt., 9 lbs. Price......68

63B6007—8x20-Inch Iron Pallet. Shpg. wt., 10 lbs. Price......77

63B6008—10x20-Inch Iron Pallet. Shpg. wt., 12 lbs. Price......98

63B6009—12x20-Inch Iron Pallet. Shpg. wt., 16 lbs. Price.....1.04

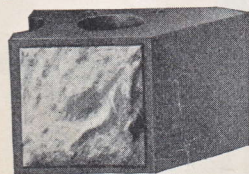
63B6010—4x24-Inch Iron Pallet. Shpg. wt., 8 lbs. Price.....1.05

63B6011—6x24-Inch Iron Pallet. Shpg. wt., 15 lbs. Price.....1.35

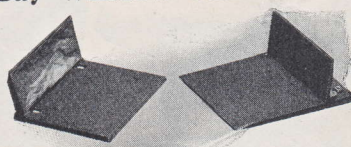
63B6012—8x24-Inch Iron Pallet. Shpg. wt., 20 lbs. Price.....1.65

63B6013—10x24-Inch Iron Pallet. Shpg. wt., 25 lbs. Price.....2.00

Bay Window Construction.



Inside Angle.



Outside Angle.

To make bay window blocks it is necessary to have a pair of bay window angle plates of the proper size, a face plate divided for half blocks for making inside angle blocks, and one plate with division line three-fourths the length of the plate for outside angle blocks. If you have no face plates properly divided, be sure to order from list above. A pair of angle plates and the face plates referred to in above description will enable you to make bay window blocks for inside and outside angles as illustrated. Be sure to tell us what design is wanted and order the correct size.

63B6020—Bay Window Angle Plates for blocks 4 inches thick. Shipping weight, 14 pounds. Price.....\$2.72

63B6021—Bay Window Angle Plates for blocks 6 inches thick. Shipping weight, 16 pounds. Price.....2.90

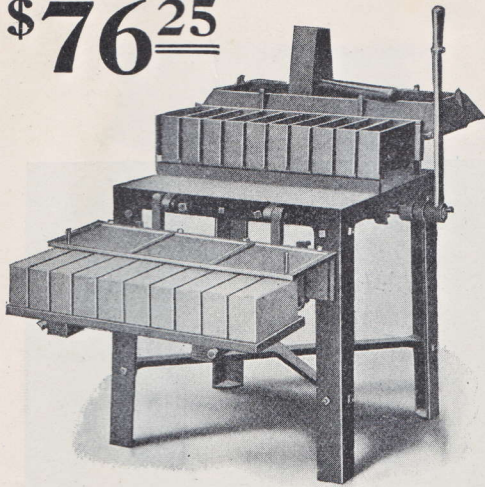
63B6022—Bay Window Angle Plates for blocks 8 inches thick. Shipping weight, 18 pounds. Price.....3.00

63B6023—Bay Window Angle Plates for blocks 10 inches thick. Shipping weight, 10 pounds. Price.....3.15

63B6024—Bay Window Angle Plates for blocks 12 inches thick. Shipping weight, 20 pounds. Price.....3.25

Handy Two-Way Brick Machine

\$76²⁵



Showing method of delivery of ten brick when made the face down way.

Makes Concrete Brick Face Down or Face Up.

Concrete brick have become very popular. They can be made as cheap or cheaper than clay brick, are handsomer in appearance, more durable, and better in every respect. Concrete brick grows stronger with age the same as other concrete materials. They cannot be destroyed by fire, as has been proven. It has been shown in a great many instances that concrete material is in every way nearer fireproof than clay brick. There are any number of cases on record where the entire contents of a concrete building were burned out, but the walls were in condition to be used for rebuilding, whereas it would have been necessary to rebuild the walls if clay brick or stone had been used. No concrete block plant is complete without a brick machine. Our Handy Two-Way Brick Machine is the machine we strongly recommend for making concrete brick. We call it a two-way machine because you can make brick either face down or face up, the latter method being almost twice as fast as the former. When brick are made face down the face can be colored or made in many fancy designs. You can also use a better mixture for the facing, making the brick so that it will compare with the highest priced pressed brick. For wall backing and to compete with common clay brick the brick can be made face up very rapidly.

Cost of Concrete Brick.

To make 1,000 common concrete brick would require:
2½ barrels cement, 1½ yards sand.
Labor—two men, one-third day each.

The price of concrete brick depends entirely on local conditions. The figures given above will enable you to determine your own costs, and the building material market in your locality will enable you to determine your selling prices.

If care is used in handling the material so there is no waste the quantities mentioned will make nearly 1,200 brick.

Remember, these common concrete brick will be better in shape, appearance and quality than common clay brick. Faced concrete brick, that is, brick with a face of a richer cement mixture, colored mixture or mixture with special material such as micaspas crystals, crushed granite or crushed marble in it, will cost a little more.

Construction.

The Handy Brick Machine is built throughout of the best gray iron castings and open hearth steel plates. The dividing plates are accurately ground and finished and securely attached to a framework which is moved back and forth by a rack or cog bar underneath the machine, where it is impossible to clog it with any concrete material that may be spilled. The side lever engages with two of these rack bars and one movement forward brings the dividing plates in position over the bed of the machine. The dividing plates are firmly locked on the front plate of the machine, so they cannot be forced out of place while tamping the brick. This insures turning out brick that are perfect in every respect. They will all be standard in size, measuring 2¼x4x8¼ inches. Every brick will be exactly the same and all corners will be square and sharp.

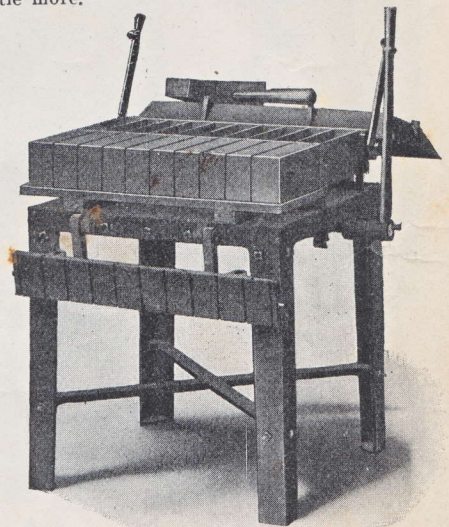
When Making Brick Face Down

The face of the brick is shaped by a planed bed which forms the top plate of the machine. After the brick are tamped and smoothed off the pallet is placed on top of them and two bracket arms swung over the pallet. The side lever is thrown backward, which withdraws the dividing plates, and the framework is turned down in front, as shown in the illustration. The brick are delivered face up on the pallet and the pallet can be conveniently removed from the machine without the use of a special carrier. When making ornamental face brick the ornamental face plates are picked loose from the brick as soon as they are turned over on the pallet. One set of ten face plates is all that is required to make a machine full of ornamental face brick at each operation.

To Make Brick the Face Up Way

The planed face plate is removed and the pallet is placed on the bed of the machine. The dividing plates are brought forward by one movement of the lever, and the brick are tamped as usual. The dividing plates are then withdrawn by one movement of the lever, the front plate released and the brick are then carried from the machine. With each machine we include a mallet tamper, steel striker, two sample wood pallets and a hopper. Shipping weight, 450 pounds. Shipped from factory in CENTRAL OHIO.

63B5890—Handy Two-Way Brick Machine. Price.....**\$76.25**



Ten brick made the face up way on the pallet, ready to be taken from the machine.

Make Ornamental Brick



Rock Design. No. 1.



Panel Design. No. 6.



Oval Face. No. 20.



Pyramid Design. No. 21.



Rope Design. No. 15.



Block Scroll. No. 22.

We can furnish ornamental face plates for our Handy Two-Way Brick Machine in any of the handsome designs shown above. You need one face plate for each brick. To make brick with return ends to match the face plate you will require a special end and face plate to match for each brick. When ordering please be sure to specify design of plates you wish. Shipped from factory in CENTRAL OHIO.

63B5891—Ornamental Face Plate for Handy Two-Way Brick Machine. Shipping weight, each, 2 pounds. Price, per plate.....**70c**

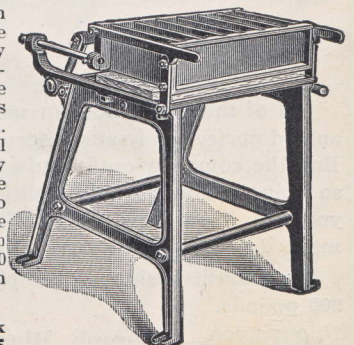
63B5893—Ornamental Plates for Making Return End Corner Brick. Shipping weight, per pair, 3 pounds. Price, per pair....**\$1.20**

Triumph Six-Brick Machine

This is an exceptionally well made but low priced machine. The front and back walls are accurately made machined castings, while the division plates are of heavy steel accurately ground to size. Brick made on this machine are of standard size, measuring 2¼x4x8¼ inches. One man can make from 1,500 to 2,000 brick per day on this machine. The dividing plates are securely attached to the back wall and withdraw through a slotted steel plate. The back wall is drawn back by a simple lever movement and it is guided by steel rods operating in babbitted bearings. A latch on each side locks the machine securely when brick are being formed.

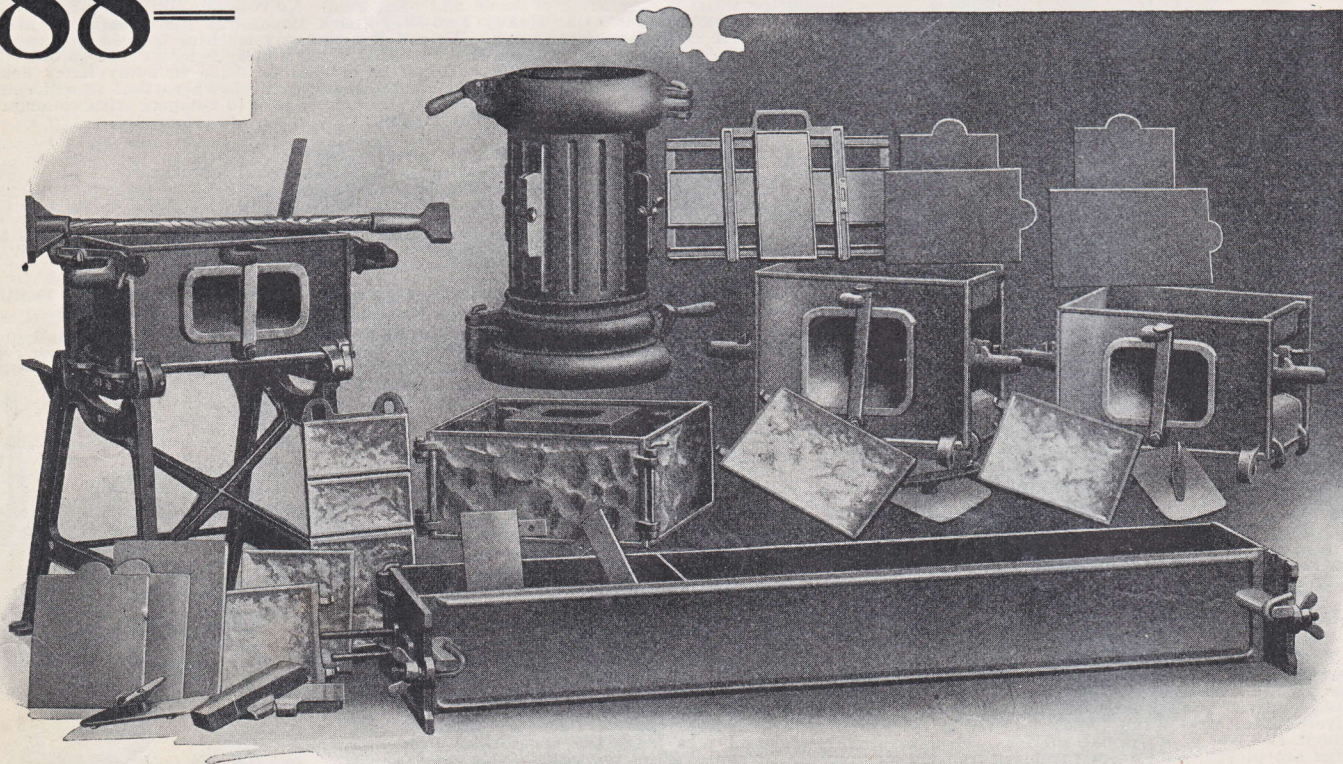
You can make ornamental brick on this machine, but as no means are provided for turning the brick they must be allowed to rest on the ornamental plate until they have become hard enough to move. This takes from twelve to twenty-four hours. If you wish to make ornamental brick it will be necessary to supply yourself with one ornamental face plate for each brick you desire to make in the course of a day. One sample wood pallet is furnished with each machine. Shipping weight, 150 pounds. Shipped from factory in CENTRAL OHIO.

63B5765—Triumph Six-Brick Machine. Price.....**\$33.65**



The Triumph Block and Porch Outfit

\$88⁰⁰



A Complete Low Priced Outfit

The Triumph Block and Porch Outfit is a complete but very low priced outfit. It contains all the necessary equipment for making rock face blocks in sizes 8x8x16 inches, 8x10x16 inches and 8x12x16 inches. You can also make fractional blocks, that is, half and quarter blocks of each of these sizes as well as blocks with openings for joists, blocks for corners, blocks for piers and for gables. The porch molds included in the outfit are complete in every detail and will enable you to add the making of concrete porches to your line of work.

The Triumph Block and Porch Outfit Consists of the Following Items:

One 63B5708 Triumph Block Machine and outfit for making 8x8x16-inch blocks.

One 63B5758 Flask Attachment for making 8x10x16-inch blocks.

One 63B5759 Flask Attachment for making 8x12x16-inch blocks.

One 63B5810 Badger Sill and Cap Machine.

One 63B5770 Fluted Column Mold, 10 inches in diameter, 12 inches high.

One 63B5848 Rock Face Pier and Chimney Mold, 16 inches square, 7 $\frac{3}{4}$ inches high, with 8x8-inch core.

One 63B5834 Column Cap and Base to match 10-inch column.

One 63B5773 Ring Mold, 10 inches.

One 63B5694 Set of 8-Inch Block Laying Gauges.

One copy of "Concrete Products, and How to Make Them."

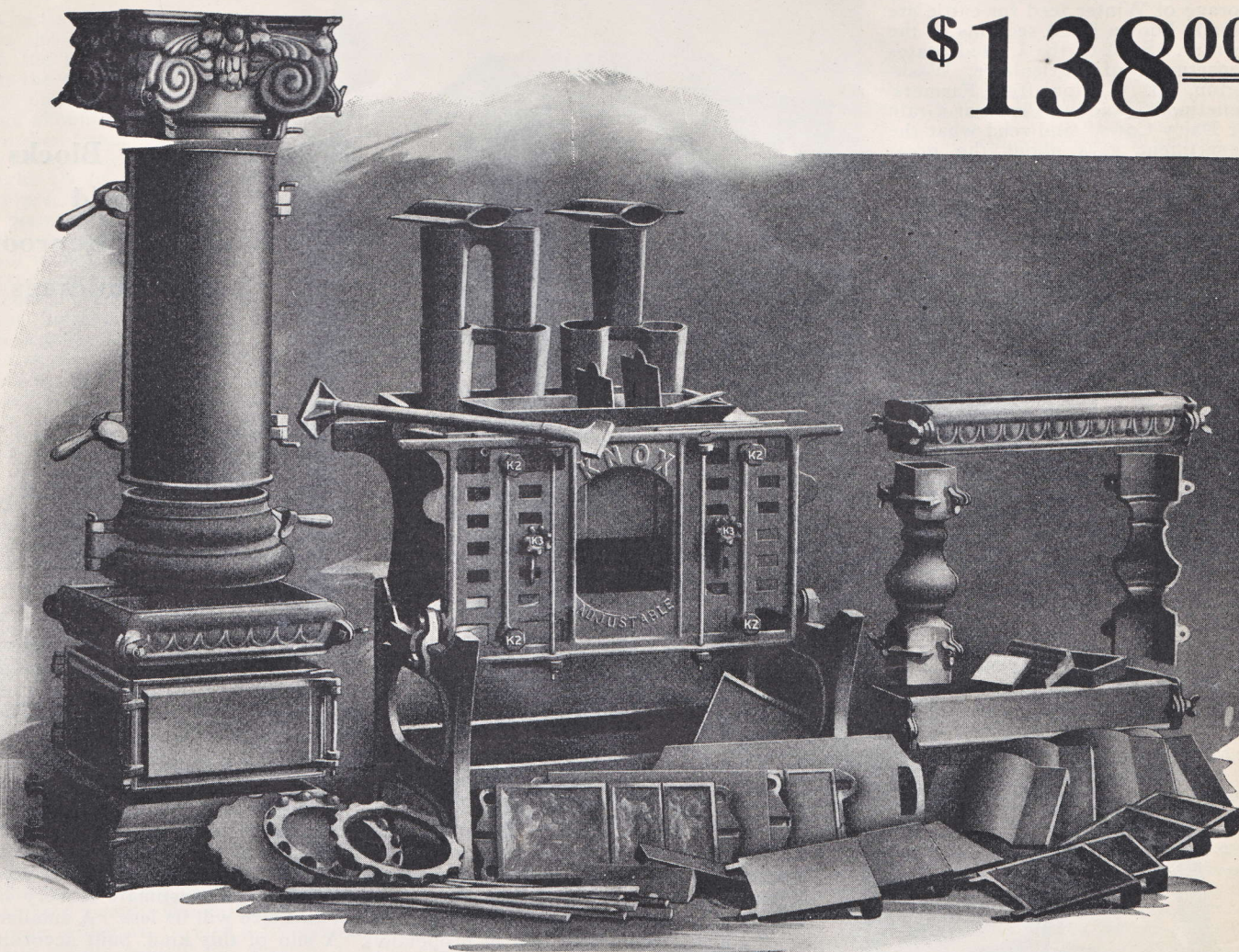
All of these machines or molds are fully described in this catalog and every item in this outfit is our regular stock, guaranteed perfect and satisfactory in every respect. To purchase each item in this outfit separately you would have to pay \$93.90. Buy the complete outfit and save \$5.90. We assemble these outfits in large quantities and we give you the saving we make by so doing. You can add additional supplies for making different designs or varieties of blocks and porch materials at any time you may need them. We will furnish designs other than those listed above if you so wish, in which case please be sure to make it plain in your order that a change is desired.

This outfit is shipped complete and direct from the Concrete Machinery Factory in CENTRAL OHIO. Shipping weight, 900 pounds.

63B5790—Triumph Block and Porch Outfit. Price, complete.....\$88.00

The Money Maker Block and Porch Outfit

\$138⁰⁰



A High Grade Outfit for the Up to Date Block Plant

This outfit will enable you to make products for practically any kind of a building. Get the cream of the concrete product business by buying this outfit. Make a specialty of high grade block and porch work. The products of this outfit will enable you to take care of a big and profitable business.

This Outfit Consists of the Following Items:

One Knox Block Machine, 63B5925, with complete Rock Face Outfit for 8x8x16-inch blocks, as described on page 15.
 Two 8x10-Inch Core Endgates.
 Two 8x12-Inch Core Endgates.
 One 8x 8-Inch Plain Endgate.
 One 8x10-Inch Plain Endgate.
 One 8x12-Inch Plain Endgate.
 One 8x10-Inch Rock Endgate.
 One 8x12-Inch Rock Endgate.
 One 16-Inch Plain Face Plate for whole blocks.
 One 16-Inch Plain Face Plate for half and quarter blocks.
 One Double Core for 8x10x16-inch blocks.
 One Double Core for 8x12x16-inch blocks.
 One Sample Wood Pallet for 10-inch blocks.

One Sample Wood Pallet for 12-inch blocks.
 One Ionic Capital Mold to match 10-inch round column.
 One 10-Inch Combination Plain and Fluted Column Mold.
 One O. G. Column Base Mold to match.
 One Egg and Dart Pier Cap Mold to match.
 One 14x14-Inch Panel Design Pier Mold with core.
 One O. G. Pier Base Mold.
 One Egg and Dart Top Rail Mold.
 One Bottom Rail Mold.
 One Set of Three Castings for making watershed blocks and recesses in rails and pier for baluster and rails to fit in.
 One Baluster Mold.
 One Baluster Pallet.
 One copy of "Concrete Products, and How to Make Them."

This equipment will enable you to make blocks 4, 8, 12 and 16 inches long, in 8, 10 and 12-inch thicknesses. These sizes are in common demand for all ordinary classes of buildings. Should you want to make other sizes you can select such extras as you may need from the list of extras on page 16.

The molds for porch material are the same as described on pages 31 and 32 and make a product suitable for the best of houses. Designs as illustrated and described will be furnished unless otherwise ordered.

If you were to buy all the items listed in above outfit separately they would cost you \$146.50. By putting these outfits up in quantities we are able to make a price of \$138.00, saving you \$8.50. The machine and all accessories listed in this outfit sold under our "money back if not satisfied" and "thirty-day free trial offer" as explained on page 6.

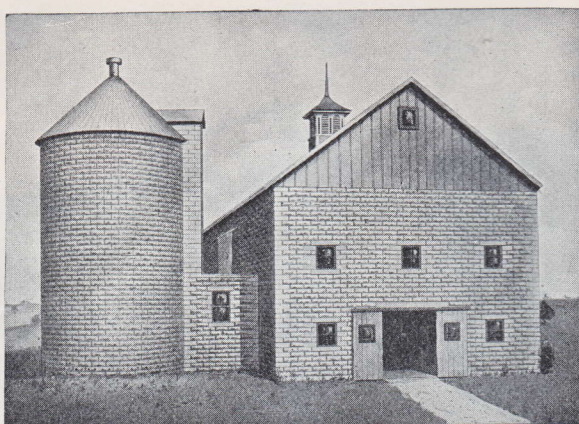
Shipping weight, 1,150 pounds. Shipped from factory in CENTRAL OHIO.

63B5670—Money Maker Block and Porch Outfit of Concrete Machinery. Price.....\$138.00

Concrete Block Silos Are a Success

The advantages of a silo for the storage of Winter feed for cattle are already known in all sections of the country. Send to the United States Department of Agriculture, Washington, D. C., for free Farmers' Bulletin, "Silage in Place of Grain for Dairy Cows," and read what the Department says about the great advantages to be derived from the use of a silo.

The Triumph Concrete Silo Block Machine is purposely constructed to meet the demands of the farmer, making it possible for him to own a concrete silo at very little cost. The Triumph Silo Block Machine will make blocks that bind each other together and at the same time bind one course or tier to the one below it. This makes the silo stronger than you can build it when using concrete blocks of a different construction. It puts the concrete block silo on a par with the costly monolithic or poured silo, which is built up with expensive reinforcements. The average farmer cannot build a monolithic silo, but he can build a concrete block silo by using our Silo Block Machine for making the blocks, as they are very easily laid. A groove is formed in the top of each block in which the reinforcement



An example of what can be done with the products of our Triumph Silo and Building Block Machines.

Use
Concrete Blocks
to Build
Sanitary Fireproof
Farm Buildings

wire, consisting of No. 8 smooth wire or two or three strands of barbed wire, is laid. A cement mortar is used to lay up the blocks and the groove containing the wire is filled up with this cement mortar to protect the reinforcement from rust. The key openings between the blocks are filled with this cement mortar, which binds the blocks together and makes the silo just as strong as any expensively built monolithic silo.

Cost of Concrete Block Silo

The cost of making and maintaining a concrete block silo is very low in comparison with other methods of construction. No painting and little, if any, repairs are required; there is no danger of the silo shrinking during the Summer months and collapsing or blowing over, and there is no possibility of destruction by fire. The silo made of hollow concrete blocks will keep silage in perfect condition.

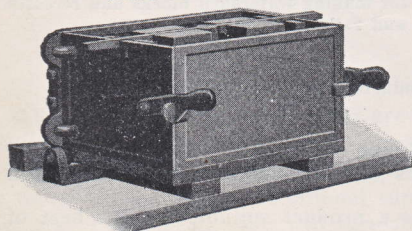
To build a silo 30 feet high and 14 feet in diameter will require 1,575 blocks. You can make the blocks yourself or have them made by your help in spare time and at a very reasonable cost, as explained on page 3. They can be laid up in the wall at a cost not to exceed 4 cents each. The completed walls need not cost over \$205.00, making a liberal allowance for material cost. A liberal allowance for lumber, carpenter work, excavating and ventilator would be \$75.00, so that a 30x14-foot concrete block silo would cost you, complete, about \$280.00. This estimate is very liberal and we are sure that the actual cost of a silo of this size will be less. A smaller silo, of course, would cost less in proportion. A silo of this kind, built according to our instructions, will be as durable and as practical as a solid reinforced poured concrete silo. A comparatively light scaffold is all you need for erecting a block silo, and anyone of ordinary intelligence can make and lay concrete blocks.

Each machine is furnished complete with a sample wood pallet, tamper, face plates for whole blocks and for two half blocks, and dividing plate. There are no extras to buy for the machine and additional pallets can be made of any smooth lumber. The blocks can be used for a silo of any diameter from 10 to 18 feet; 8x10x16-inch blocks should be used for the first 20 feet of silos more than 36 feet high. We furnish rock or panel design as desired. Please mention which you want, otherwise we send rock design. Shipped from factory in CENTRAL OHIO.

Price List Triumph Silo Block Machines.

- 63B5801—Triumph Silo Block Machine, complete. Size of block, 8 x8x16 inches. Shipping wt., 130 lbs. Price....\$17.00
63B5802—Triumph Silo Block Machine, complete. Size of block, 8x10x16 inches. Shipping wt., 140 lbs. Price.... 17.25

Silo Block Machine Without Stand.



Block Machine, without stand, for 8x8x16-inch blocks. Shipping weight, 75 pounds. Price.....\$13.95

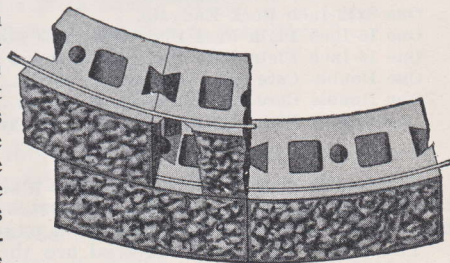
63B5755—Triumph Silo Block Machine, without stand, for 8x10x16-inch blocks. Shipping weight, 85 pounds.

Price\$14.30

For the benefit of those who do not care for a machine with a stand we have designed a special hinge casting by which the silo mold box can be fastened to any wooden bench. Shipped from factory in CENTRAL OHIO.

63B5756—Triumph Silo

The illustration shows how the reinforcement is placed in the groove formed at the time the block is made, and how the mortar poured in the key openings at the end of the blocks binds the blocks together and also binds the layers or tiers of blocks by going down into the depression formed in the top of the block between the core openings. This method binds all blocks solidly together, thus taking much of the strain from the reinforcement. Concrete blocks form a safe and simple method of building a silo.



How to Build a Silo With Concrete Blocks

THE SIZE TO BUILD.

The size of silo to build depends entirely upon the number of cattle you intend to feed, the length of time you want to feed from the silo and whether you are feeding dairy cattle or raising them for market. Silage should not be exposed to the air for more than twenty-four hours, as this causes it to decay. Well settled silage is practically airtight 1½ to 2 inches below the surface, therefore, in order to keep the silage fresh the diameter of the silo should be small enough to permit you to feed a full layer 2 to 3 inches thick each day. If the silo is of excessive diameter you will not be able to feed a complete layer and that portion of the layer that remains will be subject to decay or mold. Allowance must be made for the settling of the silage after it is placed in the silo. Under average conditions the settling will amount to from one-sixth to one-fifth of the total depth, therefore, to figure on having at least 30 feet of silage in your silo you should build it 35 or 36 feet high to allow for the settling. The table below shows the amount of settled silage in silos of various sizes. Remember, your silo should be one sixth higher than the height given, to allow for settling.

Height, Feet	Inside Diameter, Feet	Capacity, Tons	Amount That Should Be Fed Daily to Remove Full Layer
30	10	47	525 pounds
30	12	67	755 pounds
36	12	87	755 pounds
30	14	91	1,030 pounds
36	14	118	1,030 pounds
36	16	155	1,340 pounds

The amount that should be fed daily in the above table is figured on feeding from 40 to 50 pounds a day to each animal. You can easily tell how large a silo you will need, using the above table as a basis in connection with the number of days' supply you wish the silo to hold and the amount required for each day's feeding. For instance, if you are to feed twenty-five cattle at the rate of 45 pounds each a day, you will have to feed 1,125 pounds a day. The depth of the silo should control the number of days' feeding you must supply. For 180 days' supply you will need 202,500 pounds, or about 101 tons. By referring to above table you will find that a silo 36 feet deep and 14 feet in diameter is the size to build in order to hold the required quantity and insure a full layer being removed each day.

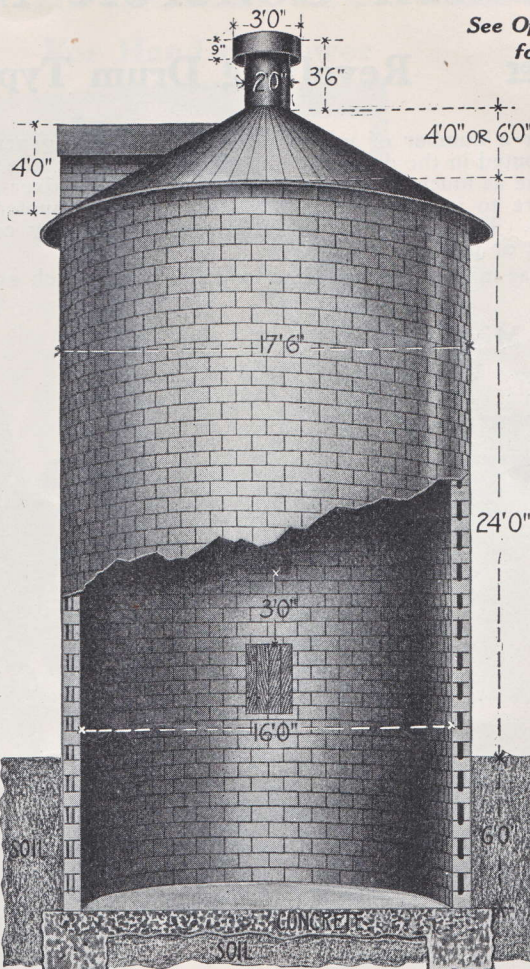
LOCATION.

The silo should be located near to where the stock is to be fed, to save time and labor in handling. The silo can be built in direct connection with the barn if desired, or it can be a small distance from the barn, having a connecting shed as shown in illustration on page 20. Build the silo so that it will get as much of the sun as possible and be protected from the cold north winds. Silage does not freeze readily in a concrete silo, and if favorably located will be preserved as well or better than if kept in a silo of any other construction.

EXCAVATING.

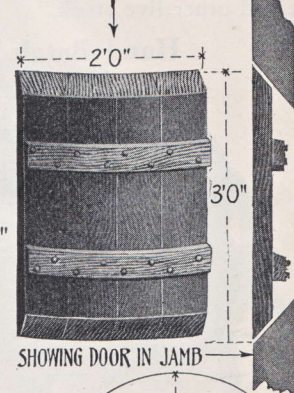
Locate the center of silo and mark it by a stake or round pole placed firmly in position. Fasten one end of a stick or rope to this center stake so it will turn and not bind. Measure off on the stick or rope from the center of the stake exactly one-half the outside diameter of the silo, and with a marker placed at the proper point draw a circle on the ground, which gives you the outside line. Excavate to this line at least 5 to 6 feet deep, leveling the bottom of the pit. Then locate the center again and put in stake and draw another circle, which will be exactly 2 inches less than the inside diameter of the silo. Leave the center stake in position until walls are partly up. Excavate outside of this line to a depth of 1 foot to 1 foot 6 inches, depending on the nature of the ground, and fill this trench with a wet mixture of concrete in the proportion of one part cement, three parts sand and six parts gravel or crushed stone. This forms the footing which supports the walls. Clear up all loose soil in the pit and cover the bottom and footings

See Opposite Page for Machines for Making the Blocks.

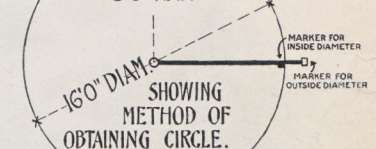


NOTE—For the purpose of illustration we give directions for a silo 16 feet inside diameter and 30 feet deep. You can make any size silo by following these directions and changing the figures to correspond.

CONSTRUCTION OF DOOR



8'0" RAD.



with a layer of wet concrete 4 inches thick, leveling it all carefully. When this concrete has set, draw a line on the footing to show the inside dimension of the completed silo. Lay the blocks to this line, using a mortar consisting of one part cement and two parts clean sharp sand. Always lay the blocks so the wedge opening on the end comes over the depression in the center of the top of the lower block. In the groove formed in the top of the block lay a No. 8 wire or two strands of barbed wire, fastening the ends securely so they cannot slip, and see that this wire is embedded in the mortar. If the silo is to be more than 30 feet high, a vertical reinforcement should be used the first 10 feet above ground and may consist of ¾-inch steel or iron bars placed every 24 inches into the core opening of the block, and then the core filled with 1: 2: 4 concrete mixed thin enough to pour.

THE DOOR OPENING.

This may be either continuous or composed of several individual doors as illustrated. The continuous door is the easiest to build, and is formed of 2x6-inch planks placed 2 feet apart with ½-inch iron pipe ladder steps placed every 2 feet. These pipes should be threaded at both ends and fitted with locknuts to be placed on each side of the door frame to hold it rigid. The reinforcing wires should run through these pipes. Where there is no pipe the reinforcing should be securely attached to the door frame. The door is formed of pieces of 2-inch plank placed from the inside and flush with silo wall. The pressure of the silage will hold them in place. If individual doors are desired, construct them as shown in the illustration, fastening the reinforcing to the door frame. The inner side of the door must be smooth so that it does not interfere with the settling of the silage.

THE ROOF.

The roof of the silo is built similar to any other roof, only on a circle conforming to the diameter of the silo. The rafters are placed 2 feet apart at the lower edge and pitched toward the center at an incline of 4 to 6 feet from the highest point to the lowest edge. When placing the rafters for the roof, construct a gable with door opening large enough for entering and filling the silo. Cover with roofing boards and prepared or felt roofing.

CUPOLA.

A cupola is not absolutely necessary, as ventilation can be provided through the door opening, although it adds to the appearance of the silo and requires no care. The cupola illustrated is constructed of galvanized iron 2 feet in diameter, 3 feet 6 inches high, having a cap 3 feet in diameter and 9 inches high.

Should you desire any additional information write us and we will be pleased to advise you fully.

Batch Concrete Mixer

\$41²⁰

With Water Attachment.

For Hand Power

Revolving Drum Type

For Belt Power

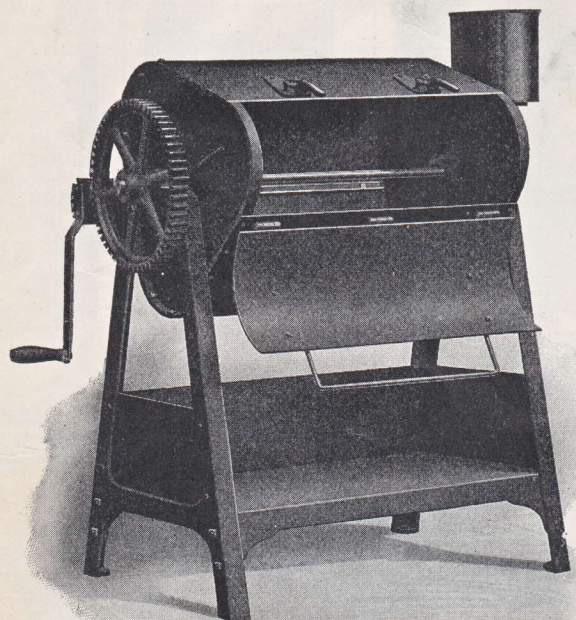
\$78³⁰

With Water Attachment.

We have sold these mixers for a number of years and they are giving general satisfaction among our customers. If the various materials are evenly distributed in the drum these machines will mix the concrete as thoroughly as any other type, although they do not save you quite as much labor as an open drum batch mixer like our Ellis Concrete Mixer shown on the opposite page. If you do not care to invest more money than the prices quoted below, order one of these mixers and we are sure you will be perfectly satisfied. These machines will mix perfectly to any consistency from dry mix for product manufacture to slush mix for sidewalks or poured work.

FARMERS—Please note: These mixers are first class for mixing feed such as bran, middlings, oats, corn and other foods for cattle and other live stock.

Hand Batch Mixer.



The construction of our Hand Batch Mixer is high grade throughout in material and workmanship. The receptacle is made entirely of iron and steel, built to form a triangle shape drum with rounded corners. The drum heads are of cast iron, the left hand drum head having a cold rolled steel shaft, cast in the center, which runs in a solid box on the stand, the gear being fastened to this shaft. The right hand drum head has a hollow cast shaft through which a perforated water pipe passes. This pipe runs directly across the center of the drum and enters a bearing on the opposite head. The water pipe is perforated so the flow of water is distributed evenly throughout the batch when the drum is in action. The shell is made of 14-gauge cold rolled iron and is riveted to the flanges on the drum head. Inside the drum, running across the center of the base of each angle, is a 1-inch angle iron that carries the material to an elevated position, throwing it over and over, mixing it thoroughly in one minute. The cover is hinged directly to the drum and is locked by means of the double eccentric latching device, as illustrated. It holds the cover securely and is quickly and easily locked or unlocked. The water tank is connected with a 1/2-inch pipe and stands on a bracket securely attached to the frame. A 1/2-inch globe valve regulates the flow of water.

We can also furnish machine without the water and perforated pipe and connections, the water being poured directly into the drum with the materials to be mixed.

The crank attached to small gear has a throw of 15 inches, giving great leverage. This, in connection with the back gearing of four to one, makes this machine easy to operate. The frame is made of well braced castings (not wood) and a steel hopper is built into the base, as illustrated. Machine is well painted and securely crated for shipment.

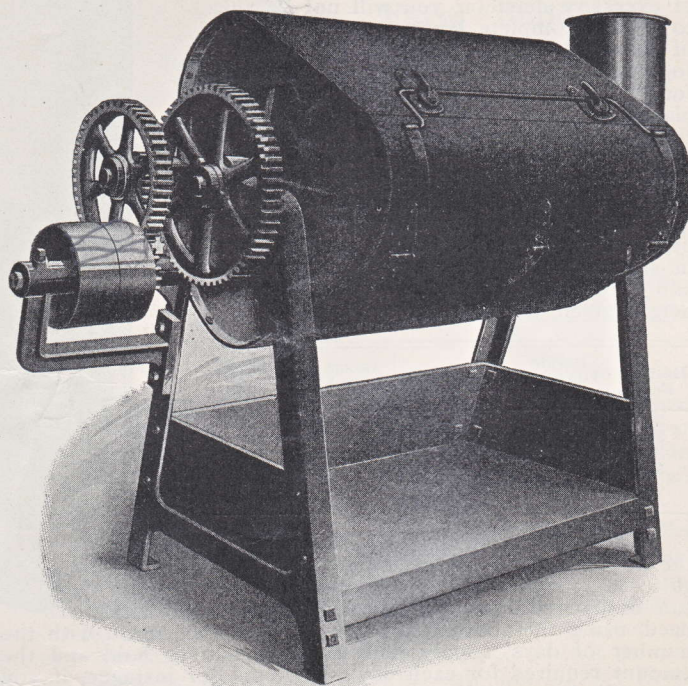
SPECIFICATIONS.

Length of drum, 30 inches; circumference, 72 inches; diameter, 23 inches; height over all, 4 feet 4 inches; length over all, 4 feet 2 inches; mixing capacity, 3 cubic feet. Shipped from factory in CENTRAL OHIO.

63B5760—Hand Batch Concrete Mixer with water attachment. Shipping weight, 300 pounds. Price..... **\$41.20**

63B5761—Hand Batch Concrete Mixer without water attachment. Shipping weight, 255 pounds. Price..... **38.40**

Power Batch Mixer.



The construction of our Power Batch Mixer is the same as that of the Hand Batch Mixer, only that the Power Batch Mixer has a larger capacity and a heavier steel shell. The transmission is geared to turn the drum fifteen revolutions per minute when pulley is driven at 180 revolutions per minute. The engine can be left running and you can stop the drum to discharge or load the material by shifting belt from tight to loose pulley. A 1 1/2 horse-power gasoline engine will drive this power mixer very nicely, although a larger engine can be used if desired.

The capacity of the Belt Power Mixer is 5 to 6 cubic feet per batch, and it is suitable for mixing wet or slush concrete for sidewalks, street ballasts, foundations and other work requiring this kind of mixing. It will also mix semi-wet or dry materials thoroughly, making it especially suitable for a concrete product plant where several machines are operated. It has capacity enough to supply a number of concrete building material machines.

The mixing is made complete in one minute, or fifteen revolutions of the drum. The perfect mixing of the materials is secured by elevating them by means of the angle irons on the inside of the drum, causing the material to be turned over and over, mixing thoroughly in one minute. To discharge the batch the door is opened and the drum revolved, allowing contents to drop on the sheet steel hopper in the base of the stand. The drum can be loaded from either side.

SPECIFICATIONS.

Length of drum, 36 inches; circumference, 84 inches; diameter, 26 inches; height over all, 4 feet 6 inches; length over all, 4 feet 8 inches; pulley, 8 inches in diameter, 3 1/4-inch face, should be driven 180 to 200 revolutions per minute; capacity, 5 to 6 cubic feet. Shipped from factory in CENTRAL OHIO.

63B5762—Power Batch Concrete Mixer with water attachment. Shipping weight, 500 pounds. Price..... **\$78.30**

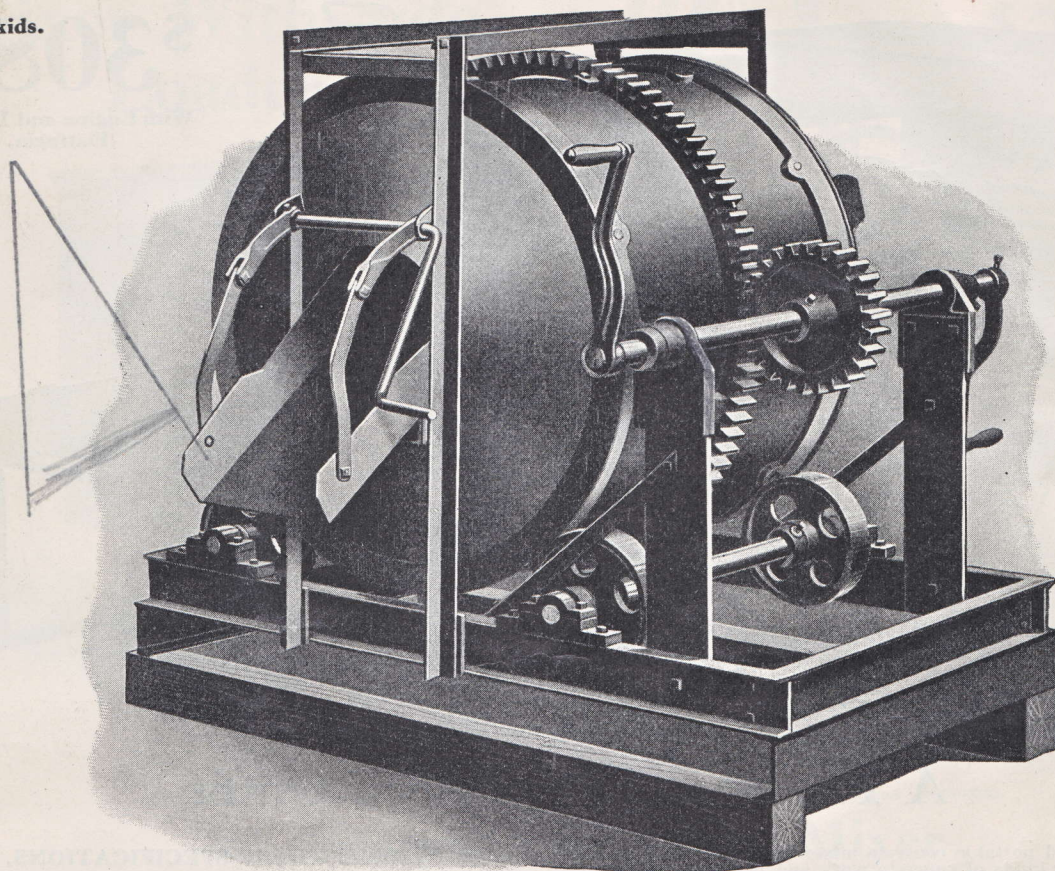
63B5763—Power Batch Concrete Mixer without water attachment. Shipping weight, 475 pounds. Price..... **75.45**

\$110⁷⁰ The Ellis Concrete Mixer \$143⁶⁵

For Hand or Power

On Skids.

On Truck.



Mixing concrete by hand, whether in a machine or by means of shovel or hoe, is hard work. A concrete mixer, even if operated by hand, will save some time and some labor, and will mix the concrete more thoroughly than you can do it with shovel or hoe. The Ellis Mixer, illustrated above, is practically the same as the mounted outfits shown on the following pages and, although an efficient mixer, it is rather large and heavy for hand operation. For stationary installation in a concrete block plant with power it is just the thing.

If you have no power at the present time get the hand operated machine, and should you install an engine or motor later on you can purchase the power pulley and drive by power. Power pulley measures 20 inches in diameter and has 3-inch face and should be driven about 180 revolutions per minute.

For general work the machine mounted on truck will prove to be very convenient. The discharge spout is high enough to discharge the mixed concrete into a wheelbarrow, and is long enough so mixer can be set alongside of forms in many cases and the mixed concrete can be discharged directly into the forms.

The Ellis Mounted Concrete Mixers shown on the two pages following are furnished complete with power, will save you more time and labor than the machine shown herewith and will prove more satisfactory. We strongly advise the purchase of a complete mounted outfit with power.

SPECIFICATIONS.

THE DRUM measures 36 inches in diameter and 30 inches wide. It is made of 10-gauge steel reinforced by heavy castings. The mixing blades and buckets will do thorough, quick work, and are set so there will be no clogging when mixing semi-dry concrete for product manufacture. One set of buckets

in the drum serves the double purpose of carrying the concrete on to the discharge chute and throwing it back into the center of the mixer when discharge chute is raised, thus insuring a perfect mixture. When discharge chute is lowered the mixed concrete is discharged into wheelbarrow or forms. All material is discharged in a few revolutions of the drum. Openings into drum are 14 inches in diameter. Loading side of drum is fitted with a charging hopper 20 inches wide, the top edge of which is 44 inches from the ground. This makes it easy to charge with materials. To clean the drum throw in a few shovelfuls of gravel and a bucket of water. Turn a few minutes and then discharge and it will be clean.

CAPACITY—When operated by hand, 3 cubic feet per batch; when operated by power, up to 5 cubic feet per batch.

FRAME made of 3-inch steel channel, with cross channels of same material. Measures 4 feet 10 inches long and 3 feet 2 inches wide over all. Total width, including charging hopper, is 4 feet 2 inches.

TRUNION ROLLERS on which mixing drum is supported have chilled face and measure 10 inches in diameter, with 2-inch face.

MOUNTING—On skids, as illustrated, for stationary use. On trucks for portable use. Trucks have steel wheels 16 inches in diameter with 3-inch tires. Track or distance between wheel centers is 48 inches.

LUBRICATION—All important bearings are provided with compression grease cups. These enable you to force fresh grease into the bearing and at the same time force the old grease and dirt out of the bearing.

Ellis Concrete Mixers are shipped complete from factory in CENTRAL OHIO.

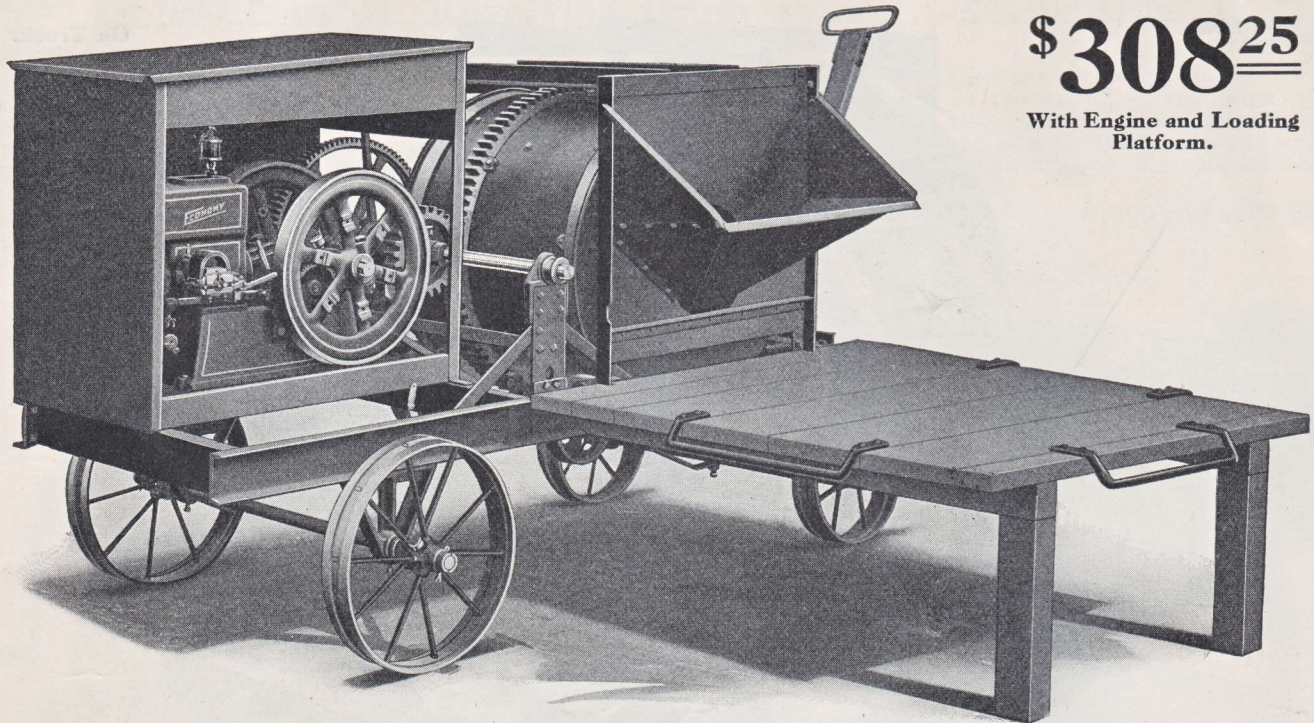
PRICES.

63B5976—Ellis Hand Operated Concrete Mixer, on skids. Shipping weight, 860 pounds.	\$110.70
Price.....	
63B5978—Ellis Hand Operated Concrete Mixer, on truck. Shipping weight, 1,250 pounds.	143.65
Price.....	
63B5979—Power Pulley for Ellis Concrete Mixer, 20-inch diameter, 3-inch face. Shipping weight, 35 pounds.	4.50
Price.....	

Ellis Concrete Mixer

\$308²⁵

With Engine and Loading Platform.



One Side of Engine Housing Has Been Removed to Show Connections.

A Practical Low Priced Outfit

Here is a low priced portable concrete mixer complete with power that is practical for all kinds of concrete work and is suitable for the large or small contractor or concrete worker. The fact that the government specifies batch mixed concrete on all government work, and the fact that practically all contractors doing concrete work for the government use a mixer of this type, should convince you that this is the type of concrete mixer you ought to buy.

If the Ellis Mixer does not seem large enough for your needs it will be more advantageous to buy two or more mixers than it would be to buy a mixer having twice the capacity of an Ellis. By using two mixers you can complete the job as quickly as with one large mixer, and when the job is completed you have equipment for doing two smaller jobs at one time. The two Ellis Mixers will not cost any more than a single big machine of the same capacity, so your investment will be the same. The operating cost and depreciation on the two machines will be less, and the two machines will, in most cases, be more practical for general use than one big one.

A Good Investment.

A power operated concrete mixer is the best investment anyone doing concrete work can make. With one Ellis Mixer and two men you can mix from 40 to 60 cubic yards of concrete a day and do it better than by hand. It would take three men about four days to do the same amount, mixing with hoe and shovel, and then the mixing would not be as well done. The Ellis Mixer will save you enough in wages alone to pay for itself.

Guarantee.

The Ellis Concrete Mixers and the Economy Gasoline Engine with which it is equipped are guaranteed to be perfect in material and workmanship and to give satisfactory service. We agree to replace any defective part without charge to the purchaser. Full directions furnished with the Economy Gasoline Engine, so you will have no trouble to start it or take care of it, even though you have never operated a gasoline engine before.

Trial Allowed.

We know the construction, workmanship and work done by the Ellis Mixer will please you, so we ship every machine subject to trial, and if you are not satisfied with it after a thorough trial you can send it back at our expense and we will return the purchase price, together with all freight charges you paid. We take all the risk.

Built for Service.

When the Ellis Mixer was being designed the designer received instructions to give service the first consideration. Tests we have made show that our instructions were followed. A concrete mixer is subjected to unusual conditions, and the Ellis Mixer is built heavy enough and of material of the proper kinds to give the kind of service you would expect of a machine of much higher price.

READ THESE SPECIFICATIONS.

THE DRUM measures 36 inches in diameter and 30 inches wide. It is made of 10-gauge steel securely attached to heavy cast iron heads. The mixing blades and buckets will do thorough, quick work, and are set so there will be no clogging when mixing semi-dry concrete for product manufacture. One set of buckets in the drum serve the double purpose of carrying the concrete on to the discharge chute and throwing it back into the center of the mixer when discharge chute is raised, thus insuring a perfect mixture. When discharge chute is lowered the mixed concrete is discharged into wheelbarrow or forms. All material is discharged in a few revolutions of the drum. Openings into drum are 14 inches in diameter. Charging hopper is 3 feet wide. Front edge of hopper is only 20 inches above loading platform and 44 inches above ground. This makes it easy to load the mixer. A few shovelfuls of gravel and a bucket of water run through the drum will clean it.

LOADING PLATFORM—Made of 2-inch plank with 4x4-inch hinged legs. Only 24 inches high. Held to mixer frame by iron hooks and easily dismounted for moving. Fitted with iron rods for runway planks. Runway planks are not included.

CAPACITY—Five cubic feet of mixed concrete to the batch, or about 6 cubic yards of properly mixed concrete per hour.

FRAME made of 5x1½-inch steel channel, with cross channels of same material.

TRUNION ROLLERS on which mixing drum is supported have chilled face and measure 10 inches in diameter, with 2-inch face.

TRUCK WHEELS are all steel with cast hub. Front wheels measure 18 inches in diameter, with 4-inch reinforced tires. Rear wheels, 24 inches diameter, with 4-inch reinforced tires. Axles are cold rolled steel. The rear one mounted in brackets as shown and the front supported by a hard wood beam.

TRACK—Standard 4-foot 8-inch, so wheels will follow the road track.

POWER—We equip the Ellis Portable Concrete Mixers with our famous 2½ Horse-Power Economy Gasoline Engine with built-in magneto which eliminates the use of batteries and all engine trouble caused by batteries. Each engine furnished with 8x4-inch pulley for other work and lubricator, grease cups, can of oil and can of grease. A sheet steel housing protects the engine from the weather and keeps out the dust and grit.

LUBRICATION—All important bearings are provided with a compression grease cup. These enable you to force fresh grease into the bearing and at the same time force the old grease and dirt out of the bearing.

Ellis Mixers are shipped complete from factory in CENTRAL OHIO.

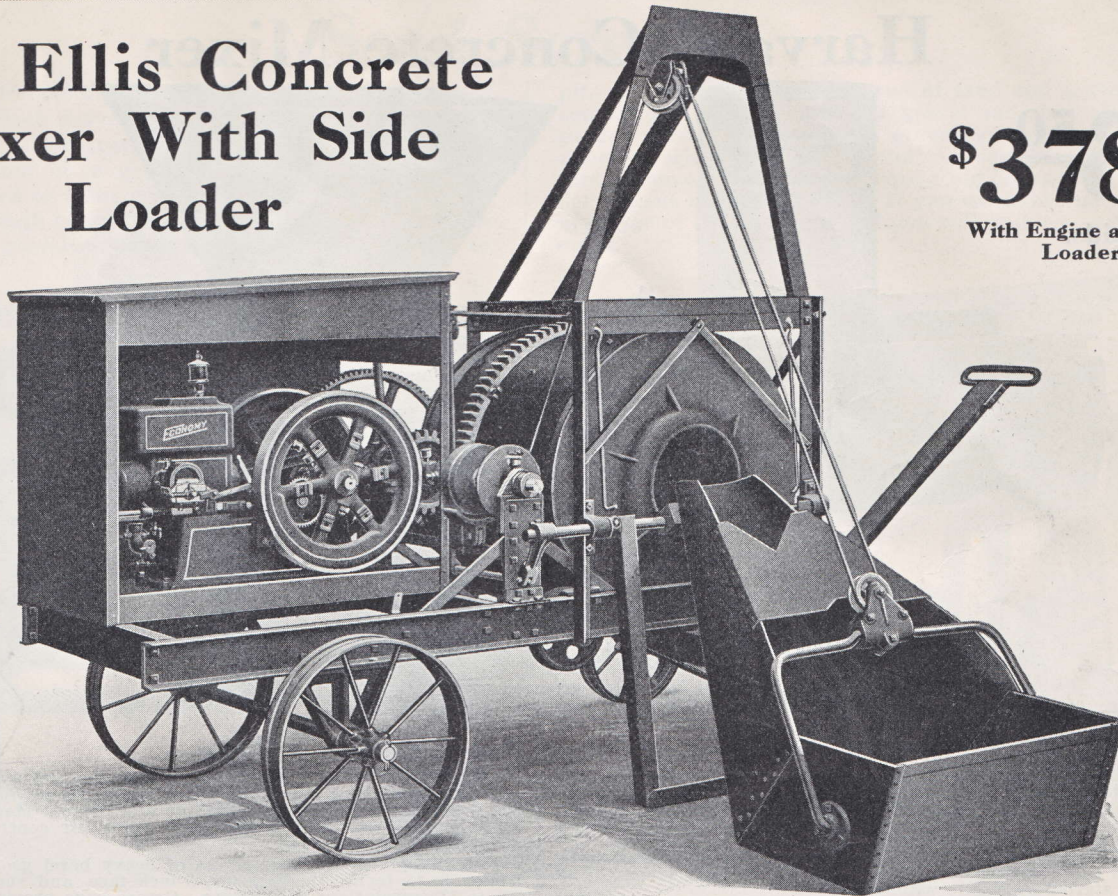
PRICES.

63B5984—Ellis Concrete Mixer, complete with 2½ Horse-Power Economy Gasoline Engine and wood loading platform. Shipping weight, 2,600 pounds. Price.....	\$308.25
63B5982—Ellis Concrete Mixer, complete with 2½ Horse-Power Economy Gasoline Engine, but without loading platform. Shipping weight, 2,350 pounds. Price.....	299.20

The Ellis Concrete Mixer With Side Loader

\$378⁰⁰

With Engine and Side Loader.



Showing Concrete Mixer Complete With One Side of Engine Housing Removed.

A Complete Concrete Mixer

COMPLETE SPECIFICATIONS.

As explained on the preceding page, the Ellis Mixer has been designed and built with the single purpose of furnishing our customers with a dependable concrete mixer at a price that would mean a saving over the price usually asked for a machine of this type. We are sure that a careful comparison will indicate that we have succeeded. The mixer shown herewith is practically the same as the one described on the preceding page, but a power side loader has been added, which increases its efficiency by eliminating the use of runways and platform and making it easier to wheel the sand, gravel and cement. This means about one-third greater capacity. The loading bucket holds a full batch, so it can be filled while a batch of concrete is being mixed. When the loading bucket is raised to discharge into the mixing drum the bottom is elevated to such an angle that it will dump clear without pounding on the bottom of the drum. Lever controlling movement of loading attachment is placed at front of machine so it can be manipulated by the same man who handles the discharge chute lever.

THE DRUM measures 36 inches in diameter and 30 inches wide. It is made of 10-gauge steel securely attached to heavy cast iron heads. The mixing blades and buckets will do thorough, quick work, and are set so there will be no clogging when mixing semi-dry concrete for product manufacture. One set of buckets in the drum serve the double purpose of carrying the concrete on to the discharge chute and throwing it back into the center of the mixer when discharge chute is raised, thus insuring a perfect mixture. When discharge chute is lowered the mixed concrete is discharged into a wheelbarrow or forms. All material is discharged in a few revolutions of the drum. Openings into drum are 14 inches in diameter and loading hopper enters drum so it dumps clean without spilling material outside of machine. A few shovelfuls of gravel and a bucket of water run through the drum will clean it.

SIDE LOADER—Well constructed of sheet steel properly braced. Holds one batch. Raised to discharge into mixer drum by means of steel cable and hoist operated by a simple internal expansion ring clutch. Clutch is disengaged automatically when bucket is at top. At same time bucket is held in position by a leather faced brake controlled by clutch lever so loader can be let down without noise or jar.

CAPACITY—Five cubic feet of mixed concrete to the batch, or about 6 cubic yards of properly mixed concrete per hour.

FRAME made of 5x1¼-inch steel channel, with three cross channels of same material.

TRUNION ROLLERS on which mixing drum is supported have chilled face and measure 10 inches in diameter, with 2-inch face.

TRUCK WHEELS are all steel with cast hub. Front wheels measure 18 inches in diameter; rear, 24 inches in diameter; 4-inch reinforced tires. Axles are cold rolled steel. The rear one is mounted in brackets as shown and the front supported by a hardwood beam.

TRACK—Standard 4-foot 8-inch, so wheels will follow the road track.

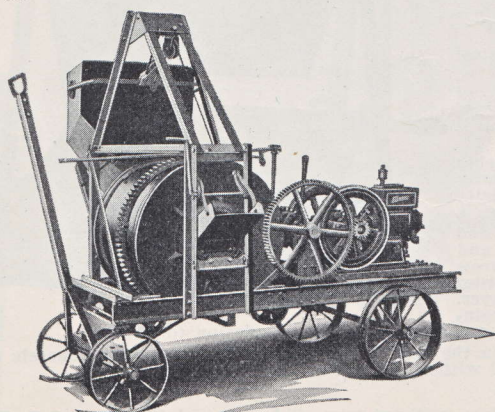
POWER—We equip the Ellis Portable Concrete Mixers with our famous 2½ Horse-Power Economy Gasoline Engine, with built-in magneto, which eliminates the use of batteries and all engine trouble caused by batteries. Each engine furnished with 8x4-inch pulley for other work, lubricator, grease cups, can of oil and can of grease.

LUBRICATION—All important bearings are provided with a compression grease cup. These enable you to force fresh grease into the bearings and at the same time force the old grease and dirt out of the bearing.

Ellis Concrete Mixers are shipped complete from factory in CENTRAL OHIO.

PRICE.

63B5980—Ellis Concrete Mixer, complete with engine and side loader. Shipping weight, 2,700 pounds. Price..... **\$378.00**



Engine Housing Removed to Show Connections.

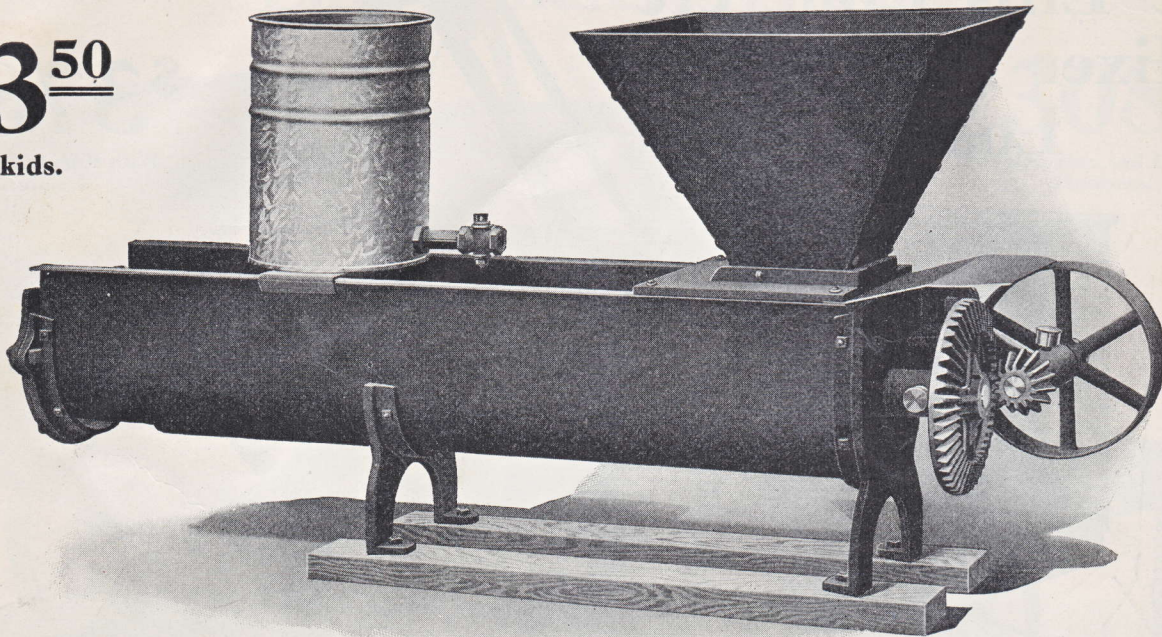
The power driven side loader is suspended by strong hooks when mixer is being moved.

SEARS, ROEBUCK AND CO., CHICAGO.

Harvard Concrete Mixer

\$33⁵⁰

On Skids.



An Efficient Low Priced Power Concrete Mixer.

As shown in the illustrations, this mixer operates on the pug mill principle, which thoroughly mixes the concrete and distributes the moisture evenly throughout the mass. It is an efficient and reliable machine, adapted for the contractor on small jobs, for the farmer and for the concrete product manufacturer.

TO USE AS A BATCH MIXER. The hopper bottom is closed by a steel slide and the materials placed in the hopper in even layers. The mixer is then started and slide withdrawn.

TO USE AS A CONTINUOUS MIXER. The hopper bottom is left open and the cement, sand and gravel or stone are thrown into the hopper in proper proportions.

TO CLEAN THE MIXER have it in operation and throw in plenty of sand and water.

SPECIFICATIONS.

HOPPER—Made of 16-gauge sheet steel. Size, 20 inches square at top, 15 inches deep. Capacity, 3 cubic feet. Securely riveted at joints and bolted to drum of mixer. Steel slide provided in bottom to control feed of materials.

MIXING DRUM—Made of 16-gauge hard rolled sheet steel. Measures 4 feet long, 12 inches wide. Ends of drum securely held in castings of ample weight, providing proper strength. Discharge is at bottom of drum, so concrete cannot be forced into end bearing of shaft.

MIXING BLADES—Held to 1¼-inch steel shaft by set screw and locked to each other by dovetail on blade. Designed to push material forward 4 inches and back about 1 inch, which insures perfect mixing. Blades can be easily removed for replacement.

WATER SUPPLY is provided by a galvanized iron tank holding 3 gallons, mounted on a bracket, which can be moved forward or back on the drum so water can be added at any desired stage of the mixing. Tank is provided with brass water valve for controlling amount of water fed to the mixture.

TRANSMISSION is by means of heavy bevel gears, as illustrated. Pulley is 11 inches in diameter, 3-inch face, and should be driven at 125 to 175 revolutions per minute. Grease cups provided where needed.

CAPACITY—Up to 25 cubic yards of mixed concrete per day, depending on number of men using machine.

MOUNTING—63B5674 is mounted on skids, as illustrated, the mixer being supported by heavy castings securely attached to drum. The front support also forms the drum end and support for drive mechanism so that all is perfectly rigid. The truck we use for our mounted outfits has ample space and capacity for mounting a gasoline engine of 1½ or 2½ horse-power size. Bolsters and axles are cast of steel in one piece. Wheels are 16 inches in diameter, 2½-inch face. Steel rims and spokes with cast hub.

Shipped from factory in NORTHEASTERN IOWA or CENTRAL OHIO.

63B5674—Harvard Concrete Mixer on Skids. \$33.50
Shipping weight, 240 pounds. Price.....

63B5675—Harvard Concrete Mixer on Truck. 51.25
Shipping weight, 325 pounds. Price.....

The Farmers' Special Concrete Mixer

\$23⁵⁰

An Efficient Low Priced Mixer.

\$25⁵⁰

The Farmers' Special Concrete Mixer is just the thing for mixing small batches of feed or concrete. But eight revolutions of the drum are necessary to do a perfect job of mixing, so each batch can be mixed rapidly. This makes it a desirable machine for general work, as a number of thoroughly mixed batches of concrete can be made ready in a short time.

THE STANDS are of cast iron, braced with flat steel, making a very rigid frame.

THE DRUM has cast iron heads and sheet steel shell.

THE OPENING extends the entire length of one corner so drum will dump clean and quickly, and the latches, although very simple, hold it securely.

CAPACITY—The drum measures 14 inches square and 31 inches long inside. It will actually hold about 3 cubic feet, but the mixing capacity is about 2 cubic feet of mixed concrete per batch.

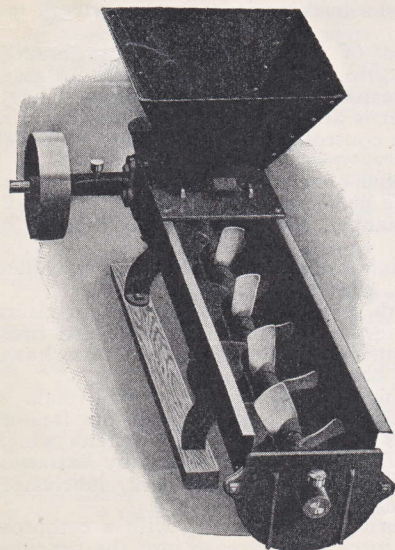
TO USE—Turn drum with opening on top and drop latch on side over the handle. Open lid and put in the required amount of water, then throw in the gravel, sand and cement in the order named, spreading each material in an even layer. Turn drum in either direction eight to ten revolutions and the mixing is completed. Open lid and turn drum one revolution to dump.

THE TRAY shown in illustration hooks on the rear braces and throws the mixed concrete out from under the drum. Mixer can be furnished without tray if desired.

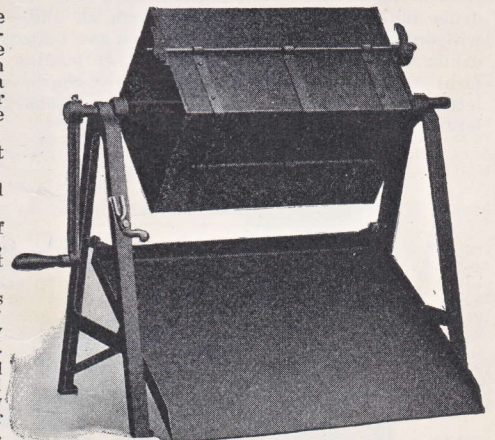
Shipped from factory in CENTRAL OHIO.

63B5748—Farmers' Special Concrete Mixer, without tray. Shipping weight, \$23.50
175 pounds. Price.....

63B5749—Farmers' Special Concrete Mixer, with tray. Shipping weight, 200 25.50
pounds. Price.....



Looking down into the mixing trough of the Harvard Mixer. The mixing paddles push the concrete forward 4 inches and back about 1 inch, which insures perfect mixing.

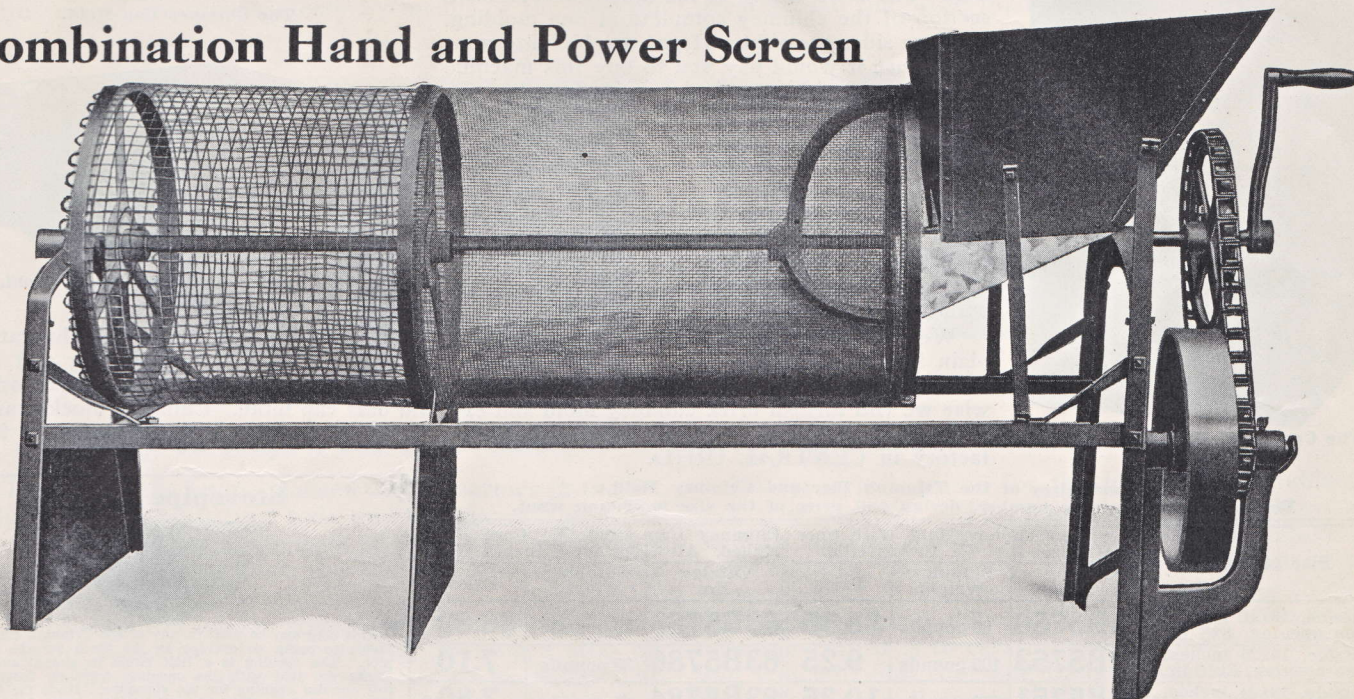


Sand Screens

Every concrete man using bank gravel should have one of these screens. Bank gravel seldom contains the proper proportions of sand and gravel for good concrete. Usually the proportion of sand is so great that a large proportion of cement is required to make a good concrete. In most cases, however, not enough cement is used to make a dense concrete with a sand and gravel mixture as it comes from the bank or

pit. By screening the bank run of sand and gravel and thus separating the sand from the gravel and then remixing the proper portions of sand and gravel, you can make a better concrete with the least amount of cement. These rotary screens have big capacity and are a big improvement over the flat screens sometimes used. If you use bank run gravel, you need one of these screens and you will find it a paying investment.

Combination Hand and Power Screen



This is a very simple and easy running machine, suitable for stationary use in a gravel pit or concrete product plant. It is, however, light enough to be loaded on a wagon and hauled to various jobs if desired and where power is not available, can easily be turned by hand, by one man.

This machine will screen all the sand and gravel that three men can shovel into the hopper with only one man at the crank or operating at thirty-five revolutions per minute if driven by power.

The screen drum measures 24 inches in diameter and 5 feet long. The first section near the hopper is 3 feet long and has meshes $\frac{1}{4}$ inch square. The remaining 2-foot section is covered with screening having meshes $\frac{3}{4}$ inch square. All that passes through the first section is considered by all concrete authorities as sand. The gravel that passes through the other section is the proper size to use in blocks and other products, while the coarse material discharged at the end should only be used in large jobs of poured work, such as sidewalks, curbs, foundations and the like.

The wire screening used is a very heavy grade and is galvanized after weaving. This is the most durable screening we can get. The screens are clamped in place with band iron clamps, easily removed so other sizes can be attached if desired. We can furnish

any desired size to special order at an extra cost of \$1.00 and subject to a delay of ten to twenty days. The center spider which supports the screen is adjustable in position so either screen length can be changed, provided the total length is not more than 5 feet.

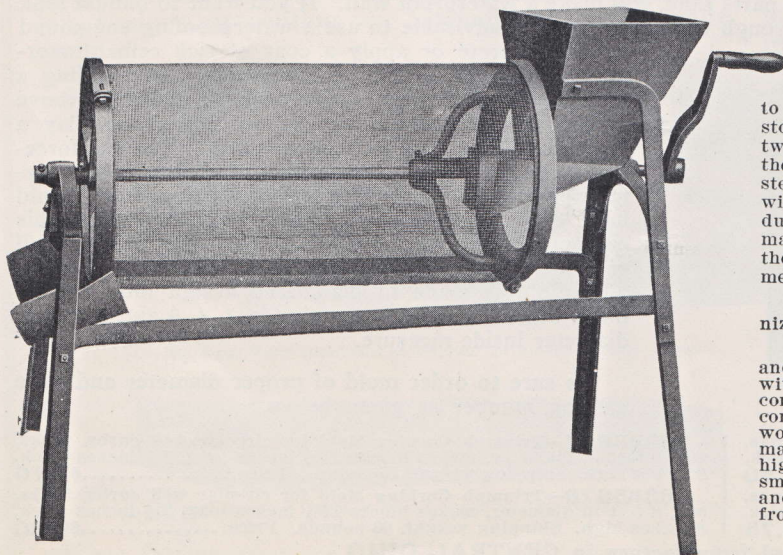
The hopper is made of sheet steel, the center shaft, cold rolled steel and the frame of flat and angle steel with cast iron upper crosspieces and bearings.

The machine as a whole is well put together in a substantial manner. Pulley measures 16 inches in diameter, 3-inch face and should be driven at about 175 revolutions per minute. The hand crank can be easily removed. When operated by hand, the chain can be removed if desired, although it is not necessary, as the pulley will then act as a flywheel and the momentum of it helps in the operation of the screen. Measurements over all are: Length, 7 feet; width, 26 inches and height, 44 inches. Shipped from factory in CENTRAL OHIO. Shipping weight, about 425 pounds.

63B6115—Duplex Sand Screen, complete for hand or power operation. Price.....\$88.75

63B6116—Duplex Sand Screen, for hand operation only. Price.....73.90

Hand Sand Screen



This screen is just right for the concrete user who simply wants to separate the sand from the gravel without separating the large stones from the gravel. It will screen all the sand and gravel that two men can shovel into it with another man at the crank. Like the large power machine shown above, this screen has a cold rolled steel center shaft, a substantial steel hopper and steel frame braced with iron crosspieces. Although light in weight, this is a strong durable machine that will pay for itself in a short time. When making comparisons with other machines, please note carefully that the screening drum of this machine is of a very practical size, measuring 3 feet long and 18 inches in diameter.

The wire screening used is a very heavy grade and is galvanized after weaving. This is the most durable screening we can get.

It is clamped in place with steel bands, so it can be easily removed and replaced with another size if desired. We furnish screening with meshes $\frac{1}{4}$ inch square. This size is most common among the concrete trade in general, all material that passes through being considered sand. A screen with meshes smaller than $\frac{1}{4}$ inch will work nicely on dry material, but wet material will clog it. This machine is 4 feet long, 24 inches wide at the bottom and 44 inches high at the hopper end. Two men can easily lift it and although small and light enough to be moved about readily, it has big capacity and will give entirely satisfactory service in every way. Shipped from factory in CENTRAL OHIO. Shipping weight, 185 pounds.

63B6112—Hand Operated Sand Screen. Price.....\$37.50

Triumph Pier and Chimney Mold

Makes Strong Chimneys at a Big Saving Over Other Methods.



The Completed Chimney Looks Like This.

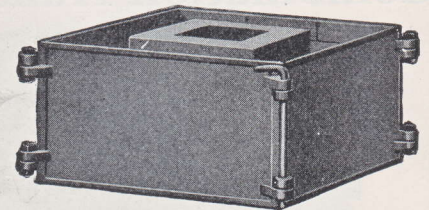
Concrete is one of the best materials that can be obtained for chimney construction. Many large factories are using chimneys of reinforced concrete, and concrete chimneys built of blocks are very desirable on dwellings and store buildings. The mold shown in the illustration forms a section of the chimney complete at one molding. All four sides are alike. If you are building your own house it would pay you to buy this machine and make the chimney blocks on it. You can use these blocks for supporting the porches and for the foundation. The cap mold makes stone suitable for finishing top of chimney, gate posts or porch piers.

These molds are made of No. 1 quality gray iron castings accurately fitted together. When closed they lock up perfectly true and square. The core tapers slightly, making it very easy to withdraw it.

We can furnish our Triumph Pier and Chimney Mold in brick face design (as illustrated), plain face or rock face. The Cap Mold can be furnished in plain design or egg and dart design, as illustrated. Be sure to tell us which you want when you place your order, otherwise we will furnish brick chimney mold and egg and dart cap mold. Chimney blocks can be made on any smooth floor, no pallets being necessary. Molds are shipped complete from factory in CENTRAL OHIO.



The Chimney Cap Mold.



The Pier and Chimney Block Mold.

Prices and Sizes of the Triumph Pier and Chimney Mold.
Be sure to give catalog number, design and price of the size mold you want.

Size of Block	Pier and Chimney Mold With Core, All Sizes Are 7 1/4 Inches High			Chimney Cap Mold, No Core Furnished. All Sizes Are 4 Inches High		
	Catalog No.	Shipping Weight	Price	Catalog No.	Shipping Weight	Price
Outside, 16x16 inches.. Flue opening, 8x8 in..	63B5750	90 pounds	\$8.35	63B5783	50 pounds	\$6.80
Outside, 16x20 inches.. Flue opening, 8x12 in..	63B5753	100 pounds	9.25	63B5786	55 pounds	7.10
Outside, 16x24 inches.. Flue opening, 8x16 in..	63B5751	110 pounds	10.25	63B5784	65 pounds	7.80
Outside, 20x24 inches.. Flue opening, 12x16 in..	63B5752	120 pounds	14.10	63B5785	80 pounds	8.80

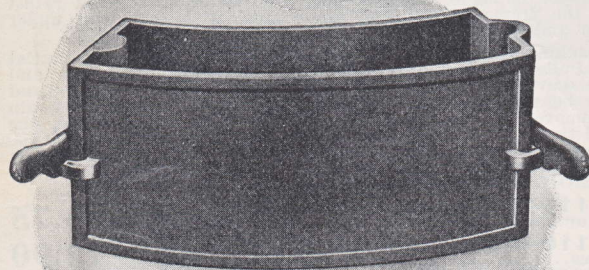
Stovepipe Core.



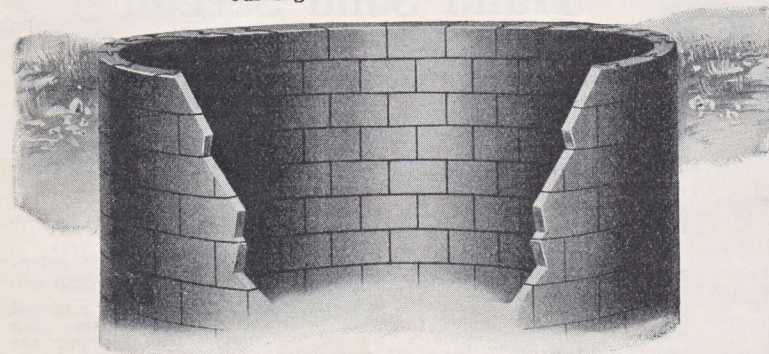
This core can be used in any of the Triumph Chimney Molds to make an opening in the block for the stovepipe. The opening is a half circle in shape, and two blocks are laid with the openings together, forming a full circular opening for the stovepipe. Made for 6-inch stovepipe only. Shipped with molds from factory in CENTRAL OHIO.
63B5804—Pipe Core. Shipping weight, 5 pounds. Price..... **\$1.00**

Triumph Well Curbing Mold

Makes an Everlasting Well at Small Cost.



Curbing Mold.



Showing Curbing Built In.

63B5879—Triumph Curbing Mold for circular well curbs, tanks, etc., 3 feet in diameter, makes block 17 1/4 inches long, 3 1/2 inches thick, 8 inches high. Shipping weight, 50 pounds. Price..... **\$6.50**
63B5876—Triumph Curbing Mold for circular well curbs, tanks, etc., 4 feet in diameter, makes blocks 18 inches long, 3 1/2 inches thick, 8 inches high. Shipping weight, 60 pounds. Price..... **\$6.75**

The demand for curved blocks for making well curbing or casing, water troughs, cisterns, or any curved wall, is steadily increasing and our Triumph Well Curbing Mold enables anyone to make up his own concrete blocks for this purpose. The mold is very simple and compact. It makes a block 3 1/2 inches thick, 8 inches high and from 17 1/4 inches to 20 1/2 inches long, depending on diameter of circle blocks are intended to make. As shown in the illustration, the ends of the blocks are made with a tongue and groove so each block will key into the next one, and when laid up with a cement mortar, consisting of one part cement and two parts sand, will make a waterproof wall. If you want to build a tank or trough to hold water it is advisable to use a waterproofing compound in the concrete or apply a coat of rich cement mortar to the wall after it is completed. In building a tank above ground it is advisable to make a groove in the top of each block and in this groove lay a length of No. 9 wire as reinforcement. The reinforcement should be fully embedded in mortar when laying the blocks. Every concrete block maker should have one or more of these molds to supply his customers with the necessary blocks for making well curbing, water troughs, cisterns and other curved walls. The mold is made in plain face design only and to make blocks that lay upon circles, 3, 4, 6 and 8 feet in diameter inside measure.

Be sure to order mold of proper diameter and state catalog number as given below.

63B5877—Triumph Curbing Mold for circular well curbs, tanks, etc., 6 feet in diameter, makes blocks 20 1/2 inches long, 3 1/2 inches thick, 8 inches high. Shipping weight, 75 pounds. Price..... **\$7.10**

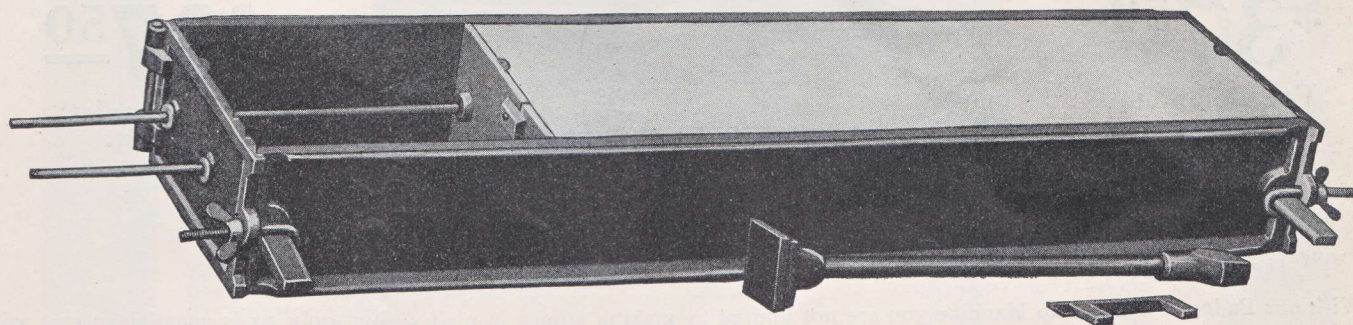
63B5878—Triumph Curbing Mold for circular well curbs, tanks, etc., 8 feet in diameter, makes blocks 17 1/4 inches long, 3 1/2 inches thick, 8 inches high. Shipping weight, 60 pounds. Price..... **\$6.60**

All items on this page shipped from factory in CENTRAL OHIO.

Badger Adjustable Sill and Cap Machine

The Badger Adjustable Sill and Cap Machine is one of the most complete and desirable machines ever produced for the purpose of making window sills or caps, steps, water table and coping blocks. Our machine can be adjusted very easily for making stones of any length from 2 to 5 feet and in widths of 8, 10, 12 or 14 inches. Adjustments are made quickly by means of the stop off

plate with rods attached for the length and by small stop off pieces which can be attached or taken off the end plate for the width. Every concrete block maker should have one of these machines. There is good profit in the sale of caps and sills and they can be made economically. The proportion of profit on a stone of this kind is much greater than the profit made on building blocks.



Easy to Adjust for Any Size

To change the length, loosen the set screws in the set collars on the adjusting rods and set the end stop off plate to make whatever length of stone you want; slide the set collars up against the endgate and tighten the set screws.

To change the width, remove the stop off extension pieces by loosening the two screws, making a stop off piece as long as you want the stone to be wide. The front plate will then come up snugly against the stop off piece and is held in notches in the endgates at each end.

The Badger Machine makes stones $7\frac{3}{4}$ inches high, so that they lay up in the wall to match properly with blocks measuring $7\frac{3}{4}$ inches high or 8 inches with mortar joint.

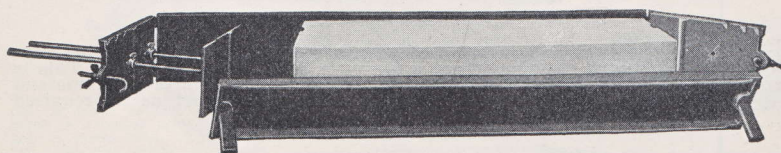
The construction of the Badger Sill and Cap Machine is mechanically perfect in every respect. It is made throughout of No. 1 gray iron castings and all parts are properly assembled and fitted so that it will make stone that is perfectly true to dimension and in shape. It is a very simple machine and can be adjusted for different sizes of stone very easily and quickly. All the plates are heavily reinforced with ribs on the upper and lower edges, preventing any tendency to spring while tamping.

No Stand or Pallets Needed

No stand is required for the Badger Adjustable Sill and Cap Machine. The stones can be made on any smooth floor or plank. If you wish you can make the stone right in the wall, and no handling of the stone will be necessary. It is a great deal safer and easier to move the machine from a stone of the size that is made on this machine than it is to carry the stone from the machine, and you will find that our Badger Adjustable Sill and Cap Machine will make a perfect stone very quickly and with little labor. Our method does away with the expense of pallets, which would have to be of 2-inch lumber to be of proper strength for a stone of the size made in this machine. This means a big saving in its use.

For making caps or steps we recommend that you use four or six pieces of $\frac{3}{8}$ or $\frac{1}{2}$ -inch iron rod placed near the top and near the bottom of the stone to reinforce the stone. This will support a heavy load and will make a cap much stronger than a natural stone cap. If you are unable to get the iron rods you can make use of old pipe, heavy hoop iron or several strands of fencing wire twisted together. This can be straightened and placed in the stone. See next page for full information regarding ornamental work on this machine.

63B5810—Badger Adjustable Sill and Cap Machine. Shipping weight, 180 pounds. Price..... **\$17.25**
Shipped from factory in CENTRAL OHIO.



Showing how machine is opened to release from stone.



A cap, step or lintel stone as made on the Badger Machine.



A sill stone made by inserting wood block in mold to form watershed.



A water table stone made by placing a triangular strip in corner of mold.

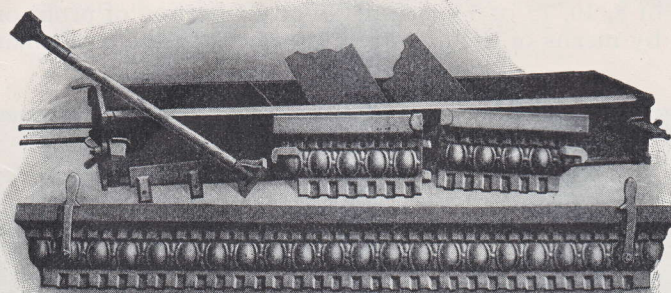
We Do Not Furnish Wood Strips for Sill and Water Table as illustrated. You Can Easily Make These Yourself.

Ornamental Work on the Badger Adjustable Sill and Cap Machine

A Valuable Addition to the Equipment of Any Concrete Manufacturer

\$37⁵⁰

For Complete Outfit.



\$37⁵⁰

For Complete Outfit.

With our Badger Sill and Cap Machine you are not limited to making stones in plain design only, as is usually the case with machines or molds of this kind. We can furnish face plates in many handsome designs, so that you can make fancy face sills or caps and use them for various kinds of ornamental work around the building, breaking up the monotony of using uniform size blocks throughout. Many ideas will suggest themselves to you.

The complete Sill, Cap and Coping Outfit illustrated above consists of our Badger Sill and Cap Machine, as described on preceding page, and a complete set of face plates, endgates and stop off pieces, in the beautiful egg and dart design, as illustrated above. The stop off pieces are used for making square end stone and fractional pieces any length up to 5 feet. Shipping weight, 300 pounds. Shipped from factory in CENTRAL OHIO.

63B5814—Complete Sill, Cap and Coping Outfit, including sill and cap machine complete, egg and dart design face plate, pair of endgates and stop offs.

Price, for complete outfit..... **\$37.50**

Special Face Designs for the Badger Sill and Cap Machine.

Ornamental stones as illustrated below can be made on the Badger Sill and Cap Machine by means of the extra face plates listed below. These ornamental stones are also adapted for belt courses around a building.



Rock Face Design Cap or Lintel Stone.



Tooled Edge Rock Design Cap or Lintel Stone.



Tooled Edge Bushhammer Design Cap or Lintel Stone.



Panel Face Design Cap or Lintel Stone.



Tooled Face Design Cap or Lintel Stone.

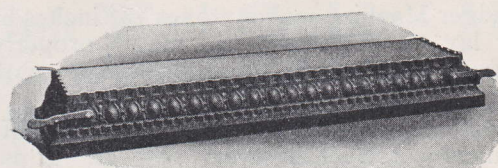


Scroll Face Design Cap or Lintel Stone.

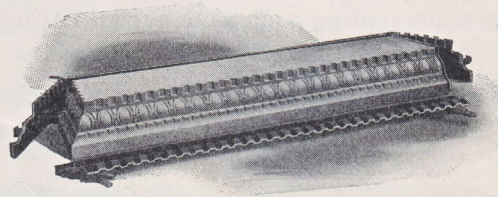
To turn corners in any of these designs put a strip of wood or steel across one corner of the mold box and make mitered ends on the stone. All these extra plates weigh 55 pounds each, and are shipped from factory in CENTRAL OHIO.

63B5811—Extra Face Plates. State design wanted. **\$8.55**
Price, each

Egg and Dart Coping Attachment for the Badger Sill and Cap Machine.



Showing Egg and Dart Coping Attachment fitted to Badger Sill and Cap Machine for making egg and dart coping stone with return end for corner. This attachment includes ends for right or left return and stop off pieces for both ends, so blocks of any length up to 5 feet can be made with square end or return end.



This illustration shows method of opening sill and cap machine leaving stone on the floor where made until hard enough to move. This is a quicker and easier way than to take the block from the machine and does away with the necessity of expensive pallets such as are required on many similar molds.



The completed Egg and Dart Design Coping Stone as it appears ready to put on the wall.

PRICE.

Do not order this attachment unless you have a Badger Sill and Cap Machine. See 63B5814 above for complete outfit.

This attachment, as described, weighs 130 pounds complete, packed for shipment, and is shipped from factory in CENTRAL OHIO.

63B5815—Egg and Dart Design Coping Attachment. **\$18.20**
Price for complete set.....

Unique Porch Column Outfits

To Make Porch Columns, Piers and Balustrades

Your plant is not complete without them and you lose money if you do not add molds to your equipment for this class of work. You can easily create a big demand for porch material and the profits are large.

A Few Business Getting Suggestions.

Get an outfit of porch molds and make up a full set of stones for one porch. Set these in your yard where they can be seen by people passing by. When a customer calls to order blocks, show him the porch material and call his particular attention to the low cost and beauty of it. Advertise in your local papers. Direct your advertisements to home owners, real estate men, contractors and builders. Call on the owners of frame buildings and buildings with wood porches, show them how the building can be improved by erecting a handsome concrete porch which will not require painting or repairing and adds to the value of the house. There is a great deal of business to be gotten in this way. Our general information book tells how to lay up porch products to get the best results, and many concrete manufacturers make additional profit by laying up their own products.

Save Money on Your Equipment

By assembling these outfits in large quantities we are able to make a saving, which we give you. Save money by buying a complete outfit which will enable you to furnish a complete line of handsome porch materials.

All these molds are fully described and priced separately below and on the following page.

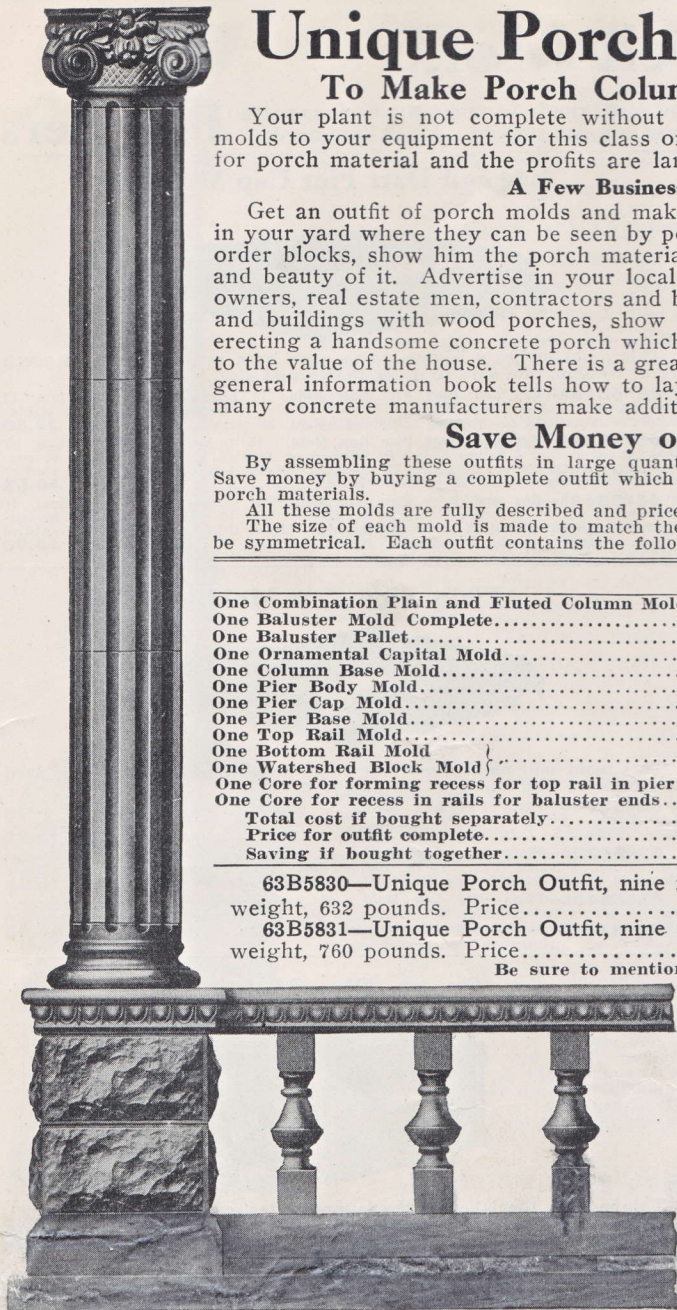
The size of each mold is made to match the other molds in the outfit, so the completed porch will be symmetrical. Each outfit contains the following molds:

	Price if Bought Separately	
	10-Inch Size	12-Inch Size
One Combination Plain and Fluted Column Mold.....	\$12.95	\$14.87
One Baluster Mold Complete.....	3.24	3.24
One Baluster Pallet.....	1.65	1.65
One Ornamental Capital Mold.....	10.35	12.95
One Column Base Mold.....	5.16	8.25
One Pier Body Mold.....	7.77	8.34
One Pier Cap Mold.....	6.53	6.80
One Pier Base Mold.....	6.50	7.77
One Top Rail Mold.....	5.18	5.18
One Bottom Rail Mold.....	5.82	5.82
One Watershed Block Mold.....	.25	.25
One Core for forming recess for top rail in pier cap.....	.25	.25
One Core for recess in rails for baluster ends.....	.25	.25
Total cost if bought separately.....	\$65.65	\$75.37
Price for outfit complete.....	60.00	69.00
Saving if bought together.....	\$ 5.65	\$ 6.37

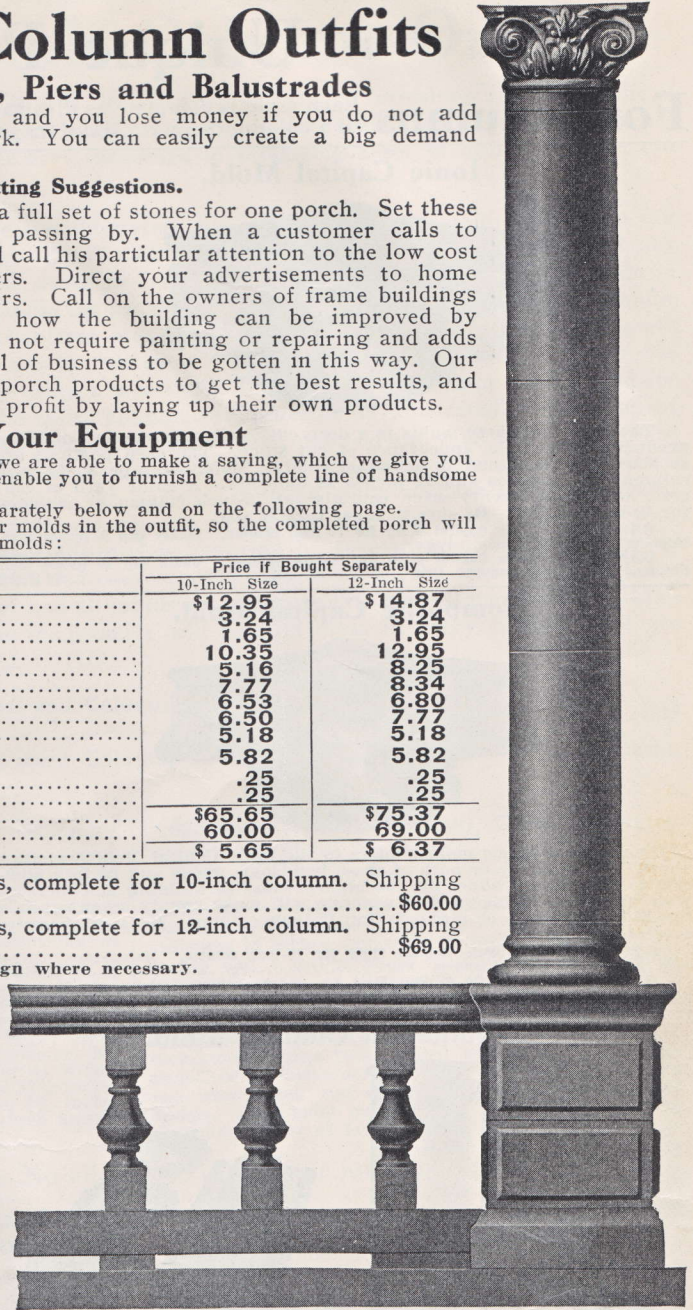
63B5830—Unique Porch Outfit, nine molds, complete for 10-inch column. Shipping weight, 632 pounds. Price.....\$60.00

63B5831—Unique Porch Outfit, nine molds, complete for 12-inch column. Shipping weight, 760 pounds. Price.....\$69.00

Be sure to mention design where necessary.



The above shows what a handsome porch can be made with these outfits, using our Ionic Capital Mold, Fluted Column Mold, Rock Face Pier Body and Egg and Dart Pier Cap and Rail.



Another example of porch construction from products made with these outfits, using our Composite Capital Mold, Plain Column, Panel Pier Body and Plain Pier Cap and Rail.

Complete Balustrade Outfit.

An outfit of perfectly designed, well fitted molds that make all the needed stones for handsome balustrade or railings around porches, terraces, bridges, lawns, etc. The outfit consists of one top rail mold, either plain or egg and dart, as illustrated (only one furnished; please mention which you want); one bottom rail mold with watershed mold, one core for making recess in top and bottom rails for ends of balusters, one baluster mold and six extra baluster pallets. All molds exactly as described below. Shipping weight, 175 pounds.....\$24.25

63B5851—Complete Balustrade Outfit. Price.....\$24.25

Egg and Dart Top Rail Mold.



Makes an attractive and beautiful rail. Used in porch work, ornamental fence and baluster rails for bridges, terraces, lawns, etc. Illustration of porch column above shows appearance of product of this mold. Stone is 4 inches high, 5 1/4 inches wide at top, 4 inches wide at bottom and 24 inches long. A cubic yard of concrete will make 200 feet of this rail. Shipping weight, 40 pounds.

63B5852—Egg and Dart Top Rail Mold. Price.....\$5.18

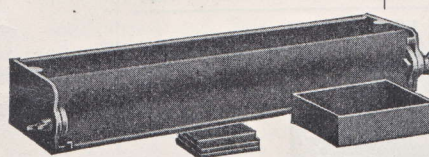
Plain Top Rail Mold.



This mold is same size as the egg and dart mold described above. Porch rail to the right in large illustration above shows the finished product. A cubic yard of concrete will make 200 feet of this rail. Shipping weight, 40 pounds.

63B5853—Plain Top Rail Mold. Price.....\$5.18

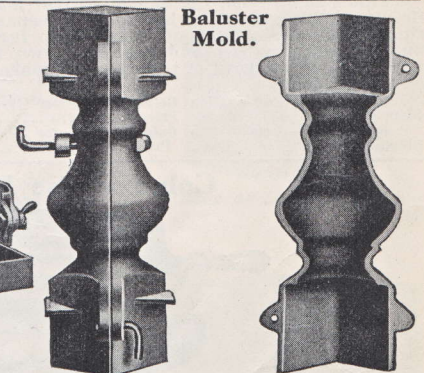
Bottom Rail Mold.



This mold makes bottom rail used in porch work and balustrades. It matches perfectly the top rail described to the left, and the baluster described to the right. Mold is well fitted together and releases easily from the product, which is left where made till hard enough to move. With each mold we furnish a small iron mold for making square blocks on which to set the bottom rail so water will drain under them, as shown in the large porch illustration above. Makes stone 4 inches high, 6 inches wide and 24 inches long. A cubic yard of concrete will make 162 feet of this rail. Shipping weight, 40 pounds.

63B5854—Bottom Rail Mold.

Price.....\$5.82



This makes a very artistic baluster with round bell shape shaft and square ends. Can be used for any purpose where a baluster is needed. Baluster must remain in half the mold, called a pallet, until hard enough to remove. Baluster is 3 1/2 inches square at top and bottom, 5 1/4 inches in diameter at the widest part of round ball and 17 inches high. A cubic yard of concrete will make 225 balusters. Shipping weight, 25 pounds.

63B5855—Baluster Mold. Price.....\$3.24

One pallet is needed for every baluster you make in a day.

63B5857—Baluster Pallet. Shipping weight, 13 pounds. Price.....\$1.65

All molds listed above are shipped direct from factory in CENTRAL OHIO.

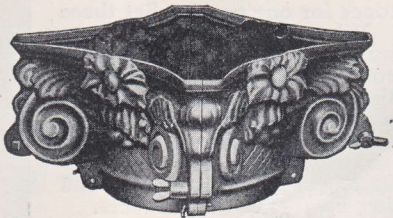
Unique Porch Molds

For Columns

Each mold is complete as illustrated and fitted ready to make the various parts of a column or pier. Make the stones on any flat surface. No pallets needed.

For Piers

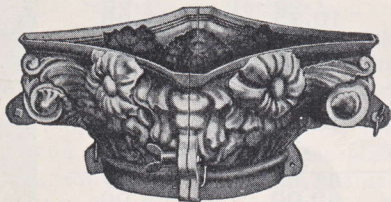
Ionic Capital Mold.



The design of these molds is a deep cut handsome one and makes a product that has the appearance of cut stone. The deep portions are so placed and designed as to release easily. Matches up perfectly with columns of 10 inches and 12 inches in diameter. A cubic yard of concrete will make twenty-seven capitals for 10-inch column or eighteen for 12-inch column. **Be sure to order correct size.**

63B5836A—Ionic Capital Mold for 10-inch column. Makes cap 9 inches high. Shipping weight, 75 pounds. Price.....**\$10.35**
63B5846A—Ionic Capital Mold for 12-inch column. Makes cap 10 inches high. Shipping weight, 90 pounds. Price.....**\$12.95**

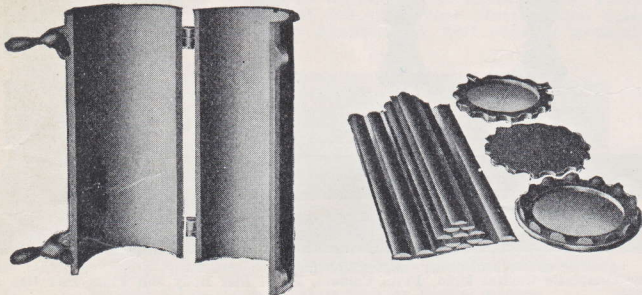
Composite Capital Mold.



Another handsome mold similar to the Ionic Capital Mold described above. Order either or both of these handsome molds and be in a position to furnish a product for the highest class of building and increase your profits. A cubic yard of concrete will make twenty-seven capitals for 10-inch column or eighteen for 12-inch column. **Be sure to order correct size.**

63B5836B—Composite Capital Mold for 10-inch column. Makes cap 9 inches high. Shipping weight, 75 pounds. Price.....**\$10.35**
63B5846B—Composite Capital Mold for 12-inch column. Makes cap 10 inches high. Shipping weight, 90 pounds. Price.....**\$12.95**

Combination Column Mold.



This Combination Column Mold will make plain or fluted columns, the flutes being obtained by means of separate strips, pallet and guide ring, as shown. A stop off ring is also furnished for forming stop off flutes in column base and cap, as shown in left hand illustration on page 31. A cubic yard of concrete will make 50 feet of 10-inch or 34 feet of 12-inch column.

63B5835—Combination Column Mold for 10-inch column. Height, 24 inches. Shipping weight, 125 pounds. Price.....**\$12.95**
63B5845—Combination Column Mold for 12-inch column. Height, 24 inches. Shipping weight, 140 pounds. Price.....**\$14.87**

Column Base Mold.



This mold forms a round base stone in the popular O. G. curve and should be used under all round columns to give the job a perfect finish. Can also be used as cap stone. **Be sure to order the size you want.** A cubic yard of concrete will make sixty-nine 10-inch bases or fifty-one 12-inch bases.

63B5834—Column Base Mold for 10-inch column; 5 1/4 inches high and 14 inches in diameter. Shipping weight, 45 pounds. Price.....**\$5.16**
63B5844—Column Base Mold for 12-inch column; 6 inches high and 16 inches in diameter. Shipping weight, 65 pounds. Price.....**\$8.25**

Egg and Dart Pier Cap Mold.



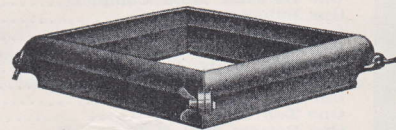
This mold makes a square stone, used as a cap on a square porch pier or column. **Be sure to order the correct size.**

63B5816A—Egg and Dart Pier Cap Mold. 13 inches square at bottom, 15 inches square at top, 4 inches high. To be used on pier 12 inches square. Makes eighty-one to the cubic yard of concrete. Shipping weight, 35 pounds. Price.....**\$5.50**

63B5839A—Egg and Dart Pier Cap Mold. 15 inches square at bottom, 17 inches square at top, 4 inches high. To be used on pier 14 inches square and in connection with round column 10 inches in diameter. Makes forty-six to the cubic yard of concrete. Shipping weight, 40 pounds. Price.....**\$6.53**

63B5849A—Egg and Dart Pier Cap Mold. 17 inches square at bottom, 19 inches square at top, 4 inches high. To be used on pier 16 inches square and in connection with round column 12 inches in diameter. Makes thirty-six to the cubic yard of concrete. Shipping weight, 50 pounds. Price.....**\$6.80**

Plain Pier Cap Mold.



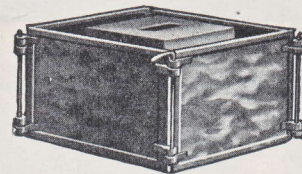
This mold will make about the same number of stones to the yard of concrete as Egg and Dart molds above.

63B5816B—Plain Pier Cap Mold. 13 inches square at bottom, 15 inches square at top, 4 inches high. To be used on pier 12 inches square. Shipping weight, 35 pounds. Price.....**\$5.35**

63B5839B—Plain Pier Cap Mold. 15 inches square at bottom, 17 inches square at top, 4 inches high. To be used on pier 14 inches square and in connection with round column 10 inches in diameter. Shipping weight, 40 pounds. Price.....**\$6.28**

63B5849B—Plain Pier Cap Mold. 17 inches square at bottom, 19 inches square at top, 4 inches high. To be used on pier 16 inches square and in connection with round column 12 inches in diameter. Shipping weight, 50 pounds. Price.....**\$6.43**

Square Pier Mold.



This mold is furnished in the following designs: Rock, plain, panel, tooled edge rock, tooled edge bushhammer or cobblestone. **Be sure to state design you want.** Rock design furnished unless otherwise specified.

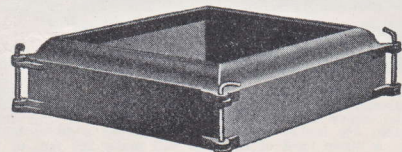
63B5817—Pier Mold, 10 inches square, 7 1/4 inches high, with core 6 inches square. Makes ninety-one to the cubic yard of concrete. State design wanted. Shipping weight, 60 pounds. Price.....**\$6.80**

63B5833—Pier Mold, 12 inches square, 7 1/4 inches high, with core 6 inches square. Makes fifty-four to the cubic yard of concrete. State design wanted. Shipping weight, 70 pounds. Price.....**\$7.50**

63B5838—Pier Mold, used with 10-inch round column, 14 inches square, 7 1/4 inches high, with core 8 inches square. Makes thirty-six to the cubic yard of concrete. State design wanted. Shipping weight, 85 pounds. Price.....**\$7.77**

63B5848—Pier Mold, used with 12-inch column, 16 inches square, 7 1/4 inches high, with core 8 inches square. Makes thirty-one to the cubic yard of concrete. State design wanted. Shipping weight, 100 pounds. Price.....**\$8.34**

Pier Base Mold.



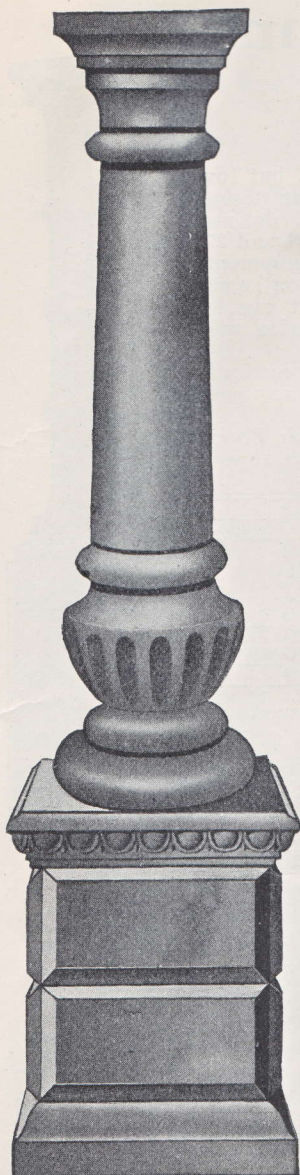
Makes a square base stone in the popular O. G. pattern, on which to build piers, gate posts and square columns. **Be sure to order the size you want.**

63B5840—Pier Base Mold to match pier blocks 12 inches square. Measures 12 inches square at the top, 15 inches square at the bottom and 5 1/4 inches high. Makes forty-one to the cubic yard of concrete. Shipping weight, 40 pounds. Price.....**\$6.15**

63B5837—Pier Base Mold to match pier blocks 14 inches square. Measures 14 inches square at the top, 17 inches square at the bottom and 5 1/4 inches high. Makes thirty-two to the cubic yard of concrete. Shipping weight, 45 pounds. Price.....**\$6.50**

63B5847—Pier Base Mold to match pier blocks 16 inches square. Measures 16 inches square at the top, 19 inches square at the bottom and 5 1/4 inches high. Makes twenty-six to the cubic yard of concrete. Shipping weight, 50 pounds. Price.....**\$7.77**

All these molds are shipped from factory in CENTRAL OHIO



Wizard Porch Column Outfit

This ornamental column mold outfit was designed with a view to furnishing something out of the ordinary in the way of a beautiful porch column, and we believe that all who admire fine porches will agree with us when we say that we have succeeded in producing a set of molds that are not excelled by anything on the market.

A porch built up of columns like the one illustrated, and with baluster and railing made on our baluster and rail molds, shown on page 31, will add greatly to the appearance and value of any house, whether of concrete block, brick, stone or frame construction. As this column is made in several sections it is much easier to handle the molds and the finished product than it is to handle the large heavy monolithic ornamental column molds usually sold. When the various sections are laid up with cement mortar the joints can be concealed very easily and the resulting column has the appearance of one solid piece. By using a wood core the urn part of column can be used for making a small vase or flower pot. The entire column and pedestal, as illustrated, is made up of products from ten molds, but as this is practically two outfits combined and each outfit can be used in combination or separately in various ways for making porch columns, gate posts, pedestals, tombstones, etc., which will be suggested to the operator in using them, we have listed each outfit separately and both together as one outfit, so you can select just the outfit you need for your requirements. Note our description carefully and in ordering be sure to mention design, where needed, catalog number of outfit selected, and correct price. These molds are sold under our usual "money back if not satisfied" guarantee and all molds are guaranteed to be well made of No. 1 castings accurately fitted and assembled, so the product will be first class in every respect. All are shipped from our factory in CENTRAL OHIO.

63B5843—Complete Wizard Pedestal and Column Outfit. Shipping weight, 450 pounds. Price..... **\$61.60**

This outfit consists of 63B5841 Wizard Column Outfit and 63B5842 Wizard Pedestal Outfit, described below.

63B5841—Wizard Column Outfit. Shipping weight, complete, 200 pounds. Price..... **\$38.70**

This outfit consists of seven molds to make column placed on pedestal in accompanying illustration, the various molds measuring as follows, commencing at top of column: Column cap is 13 3/4 inches square, 4 1/4 inches high; O. G. ring mold, 10 1/2 inches in diameter at top, 8 1/2 inches in diameter at bottom, 4 1/4 inches high; top ring mold is 10 1/2 inches in diameter, 2 1/2 inches high; main shaft is 8 1/2 inches in diameter at top, 10 inches in diameter at bottom, 29 inches high; lower ring mold above urn is 12 inches in diameter, 2 1/2 inches high; urn is 13 3/4 inches in diameter at widest part, 11 1/2 inches in diameter at bottom and 11 3/4 inches high; round base is 14 inches in diameter, 3 3/4 inches high. The entire column laid up with 1/4-inch mortar joint will be 60 inches high.

63B5842—Wizard Pedestal Outfit. Shipping weight, complete, 225 pounds. Price..... **\$22.90**

This outfit consists of three molds as follows, commencing at top of pedestal: Pier or pedestal cap mold measures 16 inches square at bottom, 18 inches square at top and 4 inches high. Can be furnished in egg and dart design, as illustrated, or in plain design, if desired. Please state which is wanted. Pedestal body mold is 16 inches square and 7 3/4 inches high. Can be furnished in panel design as illustrated or in plain rock, tooled edge rock, tooled edge bushhammer, all tooled or cobblestone. Be sure to say which design you want when you order, otherwise we send panel design. Base mold measures 16 inches square at top, 18 inches square at bottom and 5 1/2 inches high.

All measurements are exact. No allowance for mortar joints except as noted.

NOTE—Be sure to mention designs if you want a change made in the outfit, otherwise we will furnish designs as illustrated.

Jardiniere or Flower Pot Molds

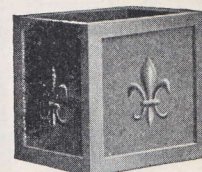
Easy to Make. Very Ornamental. Sell Readily.

The illustrations show the product of these new and original molds for making concrete jardiniere or flower pots. Every lover of flowers or small shrubs will want one or more of these jars for porch decoration. They can be made at small cost and will sell readily for from 50 to 75 cents each.

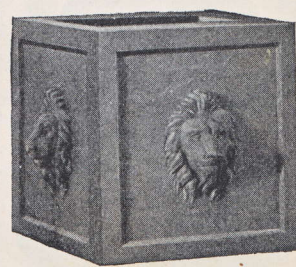
These molds are well made of best gray iron castings, well fitted and held together by simple locking devices which hold securely, yet are easily released. They are furnished with core and make jars of various sizes as given below and in designs only as listed.

Very pleasing results can be had by using white sand and white cement, cement coloring, mica spar crystals or crushed marble and granite with cement for making these jars. We recommend filling the lion head design with a fine facing mixture before making the body of the jar so that all the detail will be brought out. Made in five sizes and two designs as listed below. Order by catalog number. Shipped from factory in CENTRAL OHIO.

63B5887—Jardiniere Mold, fleur de lis design. Size, 4 inches square and 4 inches deep. Shipping weight, 20 pounds. Price, with core and tamper.....	\$2.70
63B5888—Jardiniere Mold, fleur de lis design. Size, 6 inches square and 6 inches deep. Shipping weight, 25 pounds. Price, with core and tamper.....	3.90
63B5889—Jardiniere Mold, lion head design. Size, 8 inches square and 8 inches deep. Shipping weight, 50 pounds. Price, with core and tamper.....	4.55
63B5885—Jardiniere Mold, lion head design. Size, 8 inches wide, 16 inches long and 8 inches deep. Shipping weight, 70 pounds. Price, with core and tamper.....	6.45
63B5886—Jardiniere Mold, lion head design. Size, 8 inches wide, 24 inches long and 8 inches deep. Shipping weight, 90 pounds. Price, with core and tamper.....	9.00



Fleur de Lis Design.



Lion Head Design.

Low Priced Molds for Porch Columns, Gate Posts and Piers

Every Concrete Manufacturer Should Have Them

Our Triumph Molds for porch columns, gate posts, piers and ornamental work are high grade, but low priced molds, and although our prices are about one-half what is usually asked for molds of similar design we guarantee the quality of material and workmanship to be perfect. These molds, of course, do not compare in finish with our Unique Molds, which are fully described on pages 31 and 32, but we can recommend them to those who want a lower priced porch making equipment.

Big profits can be made with an outfit such as we show on this page and on pages 31 and 32. The porch column and gate post illustrated are examples of what can be done with our regular outfit. This class of material commands a higher price and hence yields bigger profits than concrete blocks or brick.

GUARANTEE—All our porch molds are made of No. 1 quality gray iron castings, accurately fitted together. We agree to replace without charge to the customer, any part which gives out on account of defect in material or workmanship.

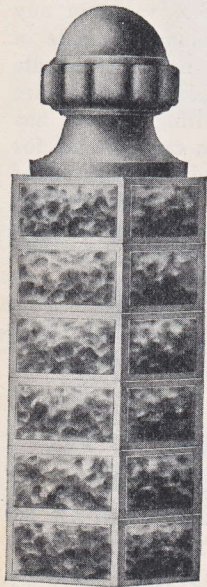
Look at the saving you make when you buy a complete outfit. The Triumph Porch Outfits contain the following molds from our regular stock, which sell at prices shown when ordered separately:

	Price When Bought Separately	
	For 10-Inch Column	For 12-Inch Column
1 Column Mold. State whether plain or fluted.....	\$ 5.85	\$ 7.80
1 Column Cap and Base Mold.....	5.16	5.50
1 Ring Mold.....	3.25	4.55
1 Pier Mold. State design wanted.....	7.77	8.34
1 Ball Mold. State whether ornamental or plain....	7.40	10.00
Total cost if bought separately.....	\$29.43	\$36.19
Price when outfit ordered complete.....	27.00	33.00
Saving you make.....	\$ 2.43	\$ 3.19

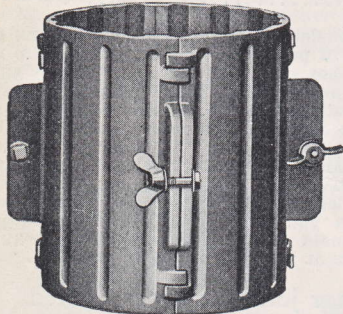
Be sure to specify designs you want so no mistake will be made in filling your order. If not otherwise ordered we will furnish fluted column mold, rock pier body mold, and ornamental ball mold as illustrated.

Price List Triumph and Gate Post Outfit.

63B5776—Triumph Porch Column and Gate Outfit for 10-inch column. Shipping weight, complete, 200 pounds. Price, for five molds, complete.....	\$27.00
63B5777—Triumph Porch Column and Gate Post Outfit for 12-inch column. Shipping weight, complete, 375 pounds. Price, for five molds, complete.....	33.00



Triumph Column Mold.



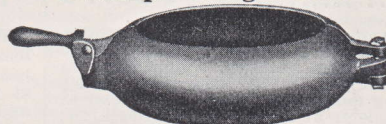
This mold is well made of accurately fitted castings and can be assembled or taken apart easily and quickly. Furnished in two sizes, as listed, and in either fluted design as illustrated, or plain design. Mention which you want. Fluted design furnished unless otherwise ordered.

63B5770—Triumph Column Mold, 10 inches in diameter, 12 inches high. State whether plain or fluted is desired. Shipping weight, 45 pounds. Price.....\$5.85

63B5771—Triumph Column Mold, 12 inches in diameter, 12 inches high. State whether plain or fluted is desired. Shipping weight, 65 pounds.

Price\$7.80

Triumph Ring Mold.



Placed in between column sections as illustrated above, it adds to the beauty of the column. Also used as supporting slab for small vases and other ornamental work.

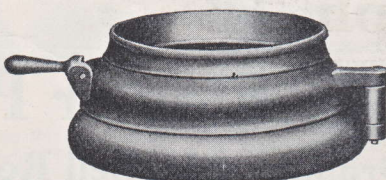
63B5773—Triumph Ring Mold to match 10-inch column. Shipping weight, 20 pounds.

Price\$3.25

63B5772—Triumph Ring Mold to match 12-inch column. Shipping weight, 30 pounds.

Price\$4.55

Triumph Column Cap and Base Mold.

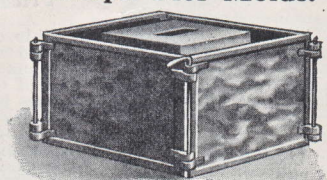


Forms cap or base of column as illustrated above. Can also be used under small vases and other ornaments.

63B5834—Triumph Column Cap and Base Mold for 10-inch column. Shipping weight, 40 pounds. Price.....\$5.16

63B5844—Triumph Column Cap and Base Mold for 12-inch column. Shipping weight, 50 pounds. Price.....\$5.50

Triumph Pier Molds.



A well made mold for making square blocks used for porches, foundation piers, gate posts, etc. Three corners are bolted together with hinge joints and one corner pinned as illustrated. To release mold from stone, pull out pin and open away from stone. Furnished in the following designs: Rock, plain, panel, tooled, tooled edge rock, tooled edge bushhammer or cobblestone. Be sure to order design you want. Rock design furnished unless otherwise specified. All sizes are 7 3/4 inches high.

63B5817—Triumph Pier Mold, 10x10 inches, with core 6 inches square. State design wanted. Shipping weight, 50 pounds.

Price\$6.80

63B5833—Triumph Pier Mold, 12x12 inches, with core 6 inches square. State design wanted. Shipping weight, 60 pounds.

Price\$7.50

63B5838—Triumph Pier Mold, used with 10-inch round column, 14x14 inches, with core 8 inches square. State design wanted. Shipping weight, 75 pounds. Price.....\$7.77

63B5848—Triumph Pier Mold, used with 12-inch round column, 16x16 inches, with core 8 inches square. State design wanted. Shipping weight, 100 pounds. Price.....\$8.34

Ball Molds

These molds are well fitted and furnished in two designs and sizes as described. They are designed to release easily and without damaging the finished product.

63B5778—Ornamental Ball Mold to match 10-inch column. Base, 12 inches in diameter; height, 12 inches; ball, 9 1/2 inches in diameter. Shipping weight, 50 lbs. Price\$7.40

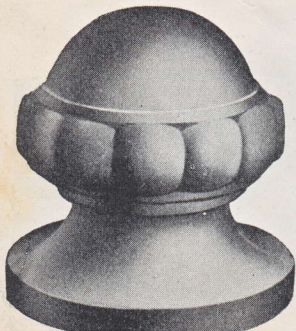
63B5779—Ornamental Ball Mold to match 12-inch column. Base, 14 inches in diameter; height, 14 inches; ball, 11 inches in diameter. Shipping weight, 65 lbs. Price\$10.00

63B5797—Plain Ball Mold to match 10-inch column. Ball, 6 inches in diameter; base, 6 inches square; total height, 12 inches. Shipping weight, about 40 lbs. Price\$5.95

63B5798—Plain Ball Mold to match 10-inch column. Ball, 10 inches in diameter; base, 12 inches square; total height, 16 inches. Shipping weight, about 50 lbs. Price\$6.15

63B5799—Plain Ball Mold to match 12-inch column. Ball, 10 inches in diameter; base, 14 inches square; total height, 18 inches. Shipping weight, about 65 lbs. Price\$7.80

All molds listed above shipped direct from factory in CENTRAL OHIO.

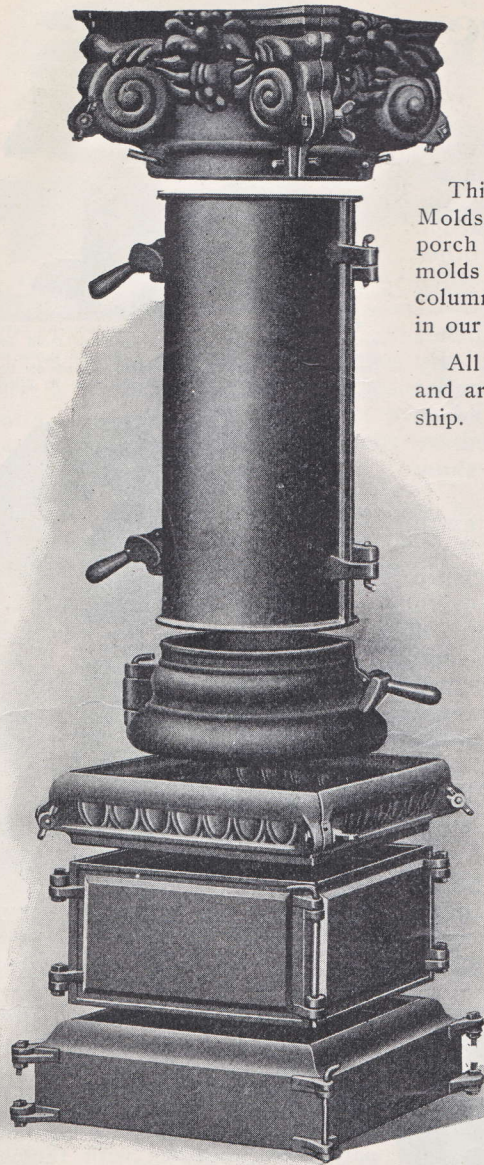


BALL MADE IN OUR ORNAMENTAL BALL MOLD.



PLAIN BALL MOLD.

The Big Six Column Outfit



This outfit consists of six of our handsome Unique Column Molds, described on page 32, and will make a very beautiful porch column. Illustration to the left shows the various molds in the outfit and illustration to right shows a complete column as made with this outfit. The large columns shown in our cover design also illustrate the products of this outfit.

All molds are made of high grade castings properly fitted and are guaranteed to be perfect in material and workmanship. Each outfit consists of the following molds:

- One Ionic Capital Mold.
- One Combination Plain and Fluted Column Mold.
- One Column Base Mold.
- One Pier Cap Mold. Egg and Dart design.
- One Pier Body Mold. Panel design.
- One Pier Base Mold.

Each mold is of proper size to match column and is as described on page 32. If design other than as specified above is wanted, be sure to mention design wanted when you write your order.

Shipment is made direct from factory in CENTRAL OHIO.

63B5819—Big Six Column Outfit for columns 10 inches in diameter. Complete as described. Shipping weight, 375 pounds.

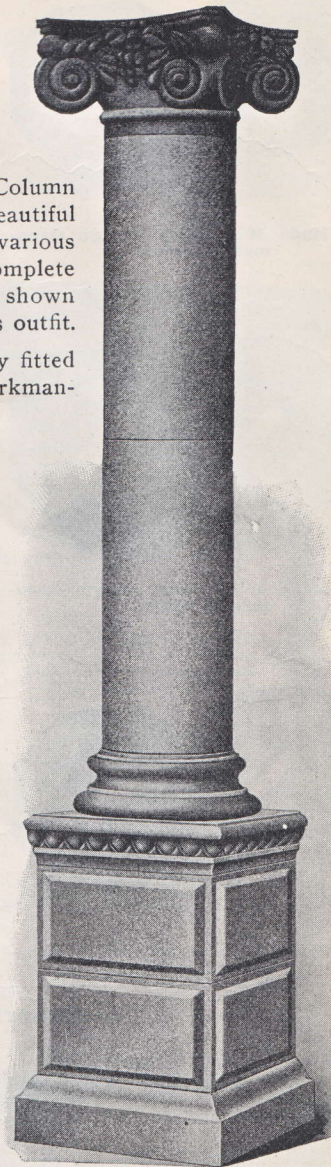
Price.....\$49.25

63B5820—Big Six Column Outfit for columns 12 inches in diameter. Complete as described. Shipping weight, 525 pounds.

Price.....\$58.95

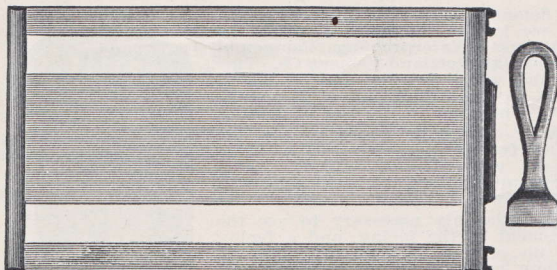
Buy an Outfit and Save Money.

If you were to buy these molds separately the 10-inch outfit would cost you \$53.25 and the 12-inch outfit \$62.75.



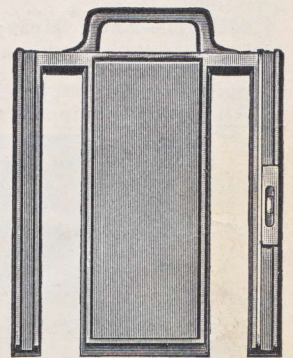
Triumph Mortar Gauges

For Laying Concrete Blocks, Brick or Porch Columns.



These tools enable the amateur worker to make a perfect job of laying blocks and enable the expert to lay them faster, easier and better than by any other method. In addition the face of the wall is kept clean and a groove of even width and depth is had between the blocks, forming a secure anchor for the beading or tuckpointing. Two gauges are furnished, one for the horizontal bed of mortar and one for placing mortar on the ends of the block.

The horizontal gauge is made with a flange on one side which is placed against the side of the block. The openings are filled with mortar and then struck off with a straight edge trowel and the gauge removed. This leaves an even line of mortar on the front and back of the block exactly $\frac{1}{4}$ inch thick ready for the placing of the block. The end gauge is used in much the same manner, flange being pressed up against the side of the block, the mortar spread in the two openings of the gauge and struck off. The tool is removed, leaving exactly $\frac{1}{4}$ inch of mortar on the ends of the block ready for the next block to be placed up against it. End gauge is also fitted with level glass.



The Triumph Mortar Gauges are made of aluminum and are very light and easily handled yet strong enough to stand everyday continual use. The tools are carefully finished and sized. With each set of block tools we include a reversible handle, which is instantly attached

or detached from the horizontal gauge, making it very convenient to place on or take off from the block.

Be sure to order the size you want, mentioning the correct catalog number and including the proper price.

Price List of Triumph Mortar Gauges.

Mortar Gauges for Concrete Blocks.

Each set consists of one horizontal gauge, one vertical gauge and one reversible handle.

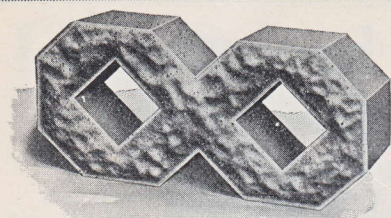
63B5694—Triumph Mortar Gauge for laying blocks 8 inches thick. Shipping weight, 6 pounds. Price, per set.....\$10.00

63B5695—Triumph Mortar Gauge for laying blocks 9 inches thick. Shipping weight, 7 pounds. Price, per set..... 11.70

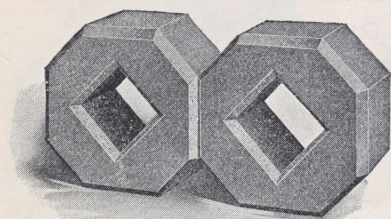
63B5696—Triumph Mortar Gauge for laying blocks 10 inches thick. Shipping weight, 8 pounds. Price, per set.....\$12.25

63B5697—Triumph Mortar Gauge for laying blocks 12 inches thick. Shipping weight, 10 pounds. Price, per set..... 12.90

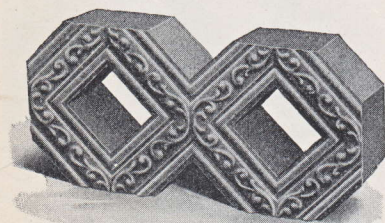
Shipped from factory in CENTRAL OHIO.



Block Made With Rock Design Ornamental Pallet.



Block Made With Panel Design Ornamental Pallet.



Block Made With Scroll Design Ornamental Pallet.

The Owl Lattice Block Mold

The Owl Lattice Block Mold makes an ornamental block that is suitable for many classes of ornamental work, such as enclosing the space under a porch, making porch or garden fences, cemetery fence, and for many other purposes which will suggest themselves when you use the mold.

The blocks made in this mold are 16 inches long, 8 inches high and 4 inches thick. By placing small blocks of wood under the pallet you can raise it up into the outside mold to make blocks 2 or 3 inches thick as desired.

The illustrations at the right clearly show this outfit and method of operation.

For ornamental work we can furnish extra iron pallets in the following designs: Rock design, panel design and scroll design. Be sure to order and allow enough money for any extra ornamental pallets you may want; but one of each kind is required, which is removed as soon as block is turned over and mold withdrawn.

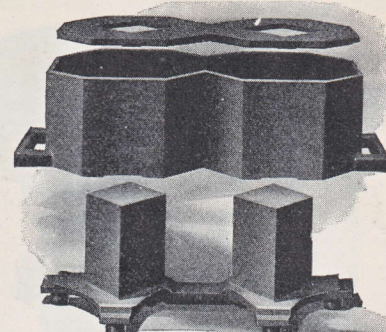
Price includes outside mold, cores, plain iron pallet or stripping plate, sample wood pallet and tamper.

Shipped from factory in CENTRAL OHIO.

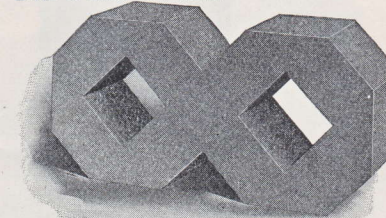
63B5792—Owl Lattice Block Mold, complete. Shipping weight, 60 pounds.

Price **\$8.20**

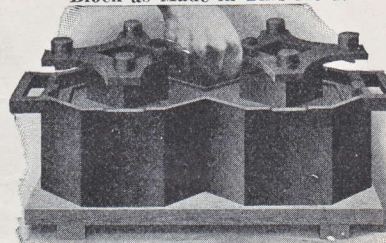
63B5793—Ornamental Pallet or Stripping Plate for lattice block mold. Shipping weight, 10 pounds. Price..... **\$2.60**



The Owl Lattice Block Mold complete with parts arranged in regular order to prepare mold for making a block. The pallet is dropped down on the cores and then outside mold placed on the offsets on the cores and it is ready to be filled. Block is made face down.



Block as Made in This Mold.



The mold turned over on a wood pallet and core being withdrawn. Note how iron pallet now forms a stripping plate which prevents damage to stone while pulling cores and outer casing. If desired block can be turned over on any smooth surface, the wood pallet being unnecessary unless you wish to carry finished blocks away from mold.

Tampers.

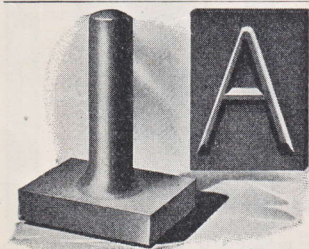


Extra tampers for making blocks and other products. Well made of No. 1 gray iron castings, nicely finished and securely mounted on hardwood handles. We have two sizes. Be sure to order correct size.

63B5676—Regular Double End Tamper. Blunt end measures 2 7/8 inches wide and 1/2 inch thick; large end measures 2 1/2 inches wide and 4 inches long. Shipping weight, 5 pounds. Price..... **\$1.25**

63B5677—Extra Heavy Double End Tamper. Blunt end measures 4 inches wide and 1 1/2 inches thick; large end measures 3 7/8 inches wide and 4 1/2 inches long. Shipping weight, 9 pounds. Price..... **\$1.65**

All tampers shipped from factory in CENTRAL OHIO.

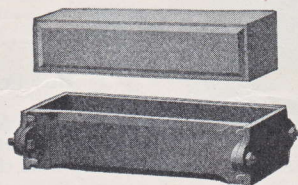


Mark Your Blocks.

In many localities the law requires all blocks to be marked with the initials or name of the block manufacturer as a means of identification. The stamp here illustrated is a simple but efficient way of doing this. The letters are 3 inches high, of plain block type, designed so they will mark the concrete and withdraw easily

and leave a perfect impression. Can be furnished in stamps of single letters, as shown, or will make one stamp of several letters. Mention which is wanted when ordering, otherwise will furnish all on one stamp. Letters are reversed so they will show properly when impressed in the block. Weight, single letter stamp, 4 pounds. Additional letters will add about 2 pounds per letter. When ordering print letters desired carefully so no mistake will be made.

63B5807—Block Marking Stamp. Price, per letter.... **70c**
Shipped from factory in CENTRAL OHIO.



Triumph Lattice Block Mold.

This is a very simple mold, making blocks suitable for lattice or porch work; makes blocks 4 inches high, 5 inches wide and 16 inches long. Mold is made up of four parts held together with thumb-screws. Can be furnished in panel design, as shown, plain design or rock design. Please state which you want when you order, otherwise we send panel design. Shipping weight, 30 pounds. Shipped from factory in CENTRAL OHIO.

63B5672—Triumph Lattice Block Mold. Price..... **\$4.10**

Medusa Waterproofing.

To meet the demand for a reliable waterproofing compound we have arranged to furnish the well known Medusa Waterproofing Compound made by the Sandusky Portland Cement Co. This material is a fine white powder and is mixed with the cement in the proportion of 2 pounds of waterproofing compound to one bag of cement.

The dry powder should be added to the dry cement and the two mixed thoroughly. This mixture is now waterproofed cement. This waterproofed cement is mixed with the sand and gravel in the usual way.

In most cases it is only necessary to use the waterproofed cement in the facing, and a facing mixture made up of one part of waterproofed cement with four parts clean sharp sand will make a more waterproof face than you can make if you used one part of plain cement to two parts sand.

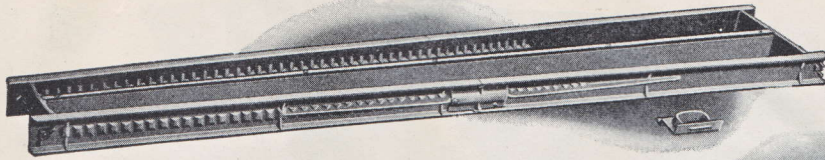
Therefore it costs nothing extra to use waterproofing, as considerable cement is saved in making the face mixture.

Cement mortar should be made with waterproofed cement. Water is not added until the waterproofed cement, sand and gravel have been thoroughly mixed. This waterproofing compound is recommended for any kind of concrete work where a waterproof job is desired. It has been successfully used for making waterproof stucco plaster, concrete blocks and other products, roofing tile, cellar walls, cistern, tank and tunnel linings and many others. It is the material to use wherever a waterproof concrete is required. Medusa Waterproofing Compound is put up in 40-pound sacks and is shipped from RAY BRIDGE, OHIO, SYRACUSE, IND., DIXON, ILL., or YORK, PENN. A 40-pound bag is sufficient to waterproof five barrels of cement.

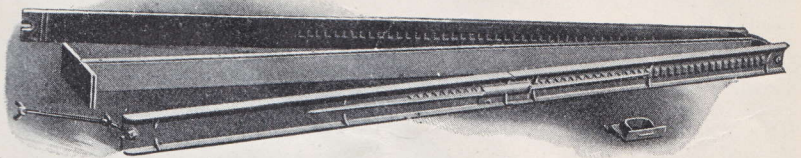
63B6150—Medusa Waterproofing Compound. Price, per 40-pound bag..... **\$4.85**



Triumph Concrete Fence Post Molds



Illustrating our Double Mold clamped together ready to be filled with concrete. The small tool shown to the right is for forming the grooves into which the reinforcement is placed.



To release the post from this mold the thumb bolts are loosened and the sides of mold open away from the post as shown above.

The Triumph Fence Post Molds shown herewith form a simple means of making good concrete fence posts. Anyone can make perfect posts by following our simple directions, and farmers particularly can make good use of these molds.

The Triumph Post Mold can be removed from the post as soon as it is made, allowing the post to lie where it was made until it has become hard enough to move, which takes from twelve to twenty-four hours, depending on the weather, after which the posts are piled for curing, which requires from fifteen to twenty days.

Construction.

The Triumph Fence Post Molds are made up of two pieces of channel shape casting, securely bolted together, forming the sides of the post, and the ends are formed by small castings fitting in grooves. The upper portion of the mold makes a series of knobs or buttons on the post, which prevents the wire from slipping up or down. These knobs or buttons require but little cement to make them and, unlike grooves or holes in a post, do not weaken it. The mold is securely held together by two thumb bolts and can be opened or closed in an instant.

Reinforcement.

All concrete fence posts must be reinforced. For reinforcement you can use $\frac{3}{8}$ -inch iron rods, pieces of barbed wire or straight wire. For the convenience of our customers we list reinforcement below. The price given is as low as it is possible to quote for this material under existing conditions in the steel market and is subject to advance. We furnish a grooving block with each mold which enables you to groove a place in the concrete for the reinforcement. These grooves place the reinforcement the proper distance from the surface of the mold to provide the greatest strength and still have enough concrete around them to prevent rusting.

To Attach Fencing.

Any style of wire fencing can be attached to posts made on these molds by using the special wire tie furnished with each mold, as shown below.

Size.

We make the line post molds in one size only—to make a post 7 feet long, $\frac{3}{4}$ inches thick, 5 inches wide at the bottom, tapering to $\frac{3}{4}$ inches at the top. The large end makes a solid anchor when properly placed in the ground. The finished posts will weigh on an average about 75 pounds each.

Corner Posts.

The corner post mold measures 8 feet long and is made in the single style only. It makes a post $\frac{8}{4}$ inches square at the top and is provided with an adjustable bottom plate to make bottom any size from $\frac{8}{4}$ x9 inches to $\frac{8}{4}$ x14 inches. These posts are especially adapted for corners, gates and ends of fences where the most strain comes.

Cost of Posts.

A good line post is made of a mixture of one part cement to two parts sand and four parts gravel. To make 100 posts requires the following material:

Four barrels cement.
 $1\frac{1}{2}$ cubic yards sand.
 $2\frac{1}{2}$ cubic yards gravel.
 Labor, one man will make 100 posts a day.
 Reinforcement, four pieces to each post.

By using the prices you pay for material, you can easily figure the cost from the above. When using the double mold the labor cost is reduced about one-third. Concrete posts can be sold at a price that will make you a good margin of profit. But one mold for each man is all that you require, as the mold is removed from the post as soon as made. All Triumph Molds and Reinforcement are shipped from factory in CENTRAL OHIO.

Price List.

63B5896—Single Line Post Mold, complete with grooving block and wire tie. Shipping weight, each, 50 pounds.

Price, each..... **\$9.55**

63B5900—Double Line Post Mold, complete with grooving block and wire tie. Shipping weight, each, 60 pounds.

Price, each..... **\$10.90**

63B5899—Corner Post Mold, makes post 8 feet long, $\frac{8}{4}$ inches square at top and any size from $\frac{8}{4}$ x9 inches to $\frac{8}{4}$ x14 inches at bottom. Shipping wt., each, 180 pounds. Price..... **\$16.35**

63B5897—Fence Post Reinforcement. Cut in 7-foot lengths and straightened, about 90 pieces to 100 pounds. Price, per 100 pounds..... **\$3.95**

The post our molds make.

The single mold.

Method of Attaching Fence to Concrete Posts.

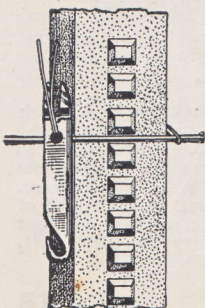


Figure 1.

First, take a piece of No. 12 or No. 14 wire long enough to go around the post twice. Bend this piece of wire in the form of a hairpin and hook it over a line wire of the fence. Then bring it around the post and let it extend out in front of the post over the fence wires on the other side. Insert both ends of the tie wire through the hole in the fence tool and from the back, sliding the tool to the fence wire as shown in Figure 1. Next turn the tool upward so the tie wire coming from around post will pass through the forked end and so the fence wire will rest in small groove at the base of the fork as shown in Figure 2.

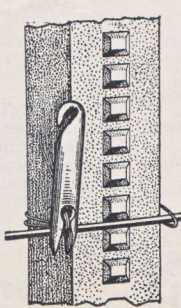


Figure 2.

Pull forward on the tool and twist it around the line wire so the tie wire will twist tightly on the fence wire and hold it perfectly tight against the post as shown in Figure 3.

This tool will enable you to pull the tie wire so tight that it will be embedded in the corners of a square post or in the fins formed by the joining of a round mold. One of these tools is included with every Triumph Post Mold without extra charge. Extra tools can be had if desired. Shipped from factory in CENTRAL OHIO.

63B5898—Triumph Fence Wire Tie. Shipping wt., 1 lb. Price..... **.40c**

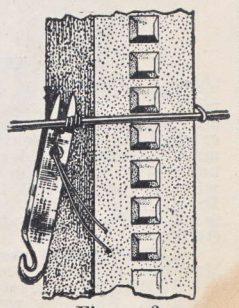
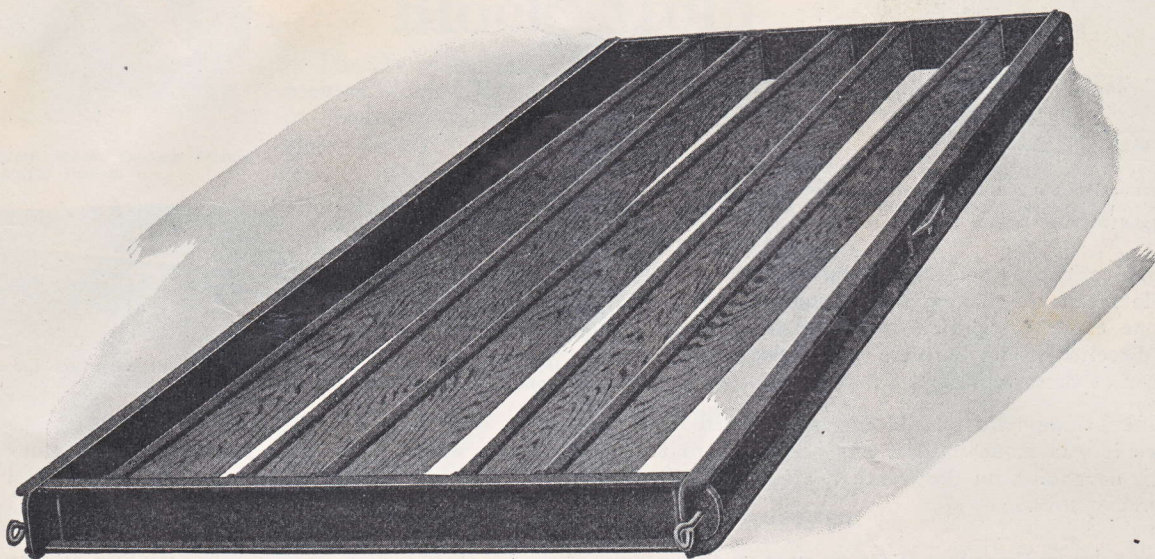


Figure 3.

Triumph Post Mold Gang



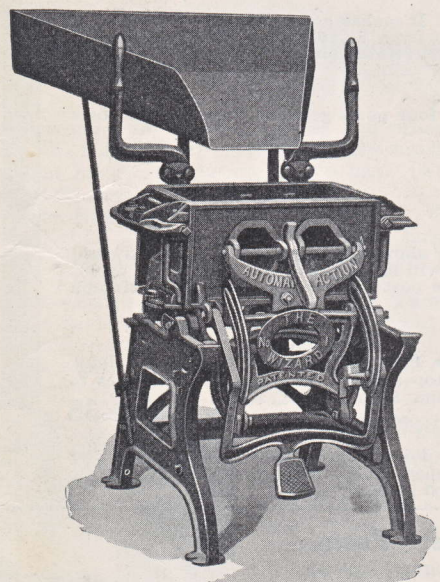
We recommend this mold to anyone who desires to make concrete fence posts in quantities. The mold is made similar to our Triumph molds described on the preceding page, except that all four sides of the post are plain. This because it would not be practical to make division boards to form the buttons on the post. These buttons are not absolutely necessary, because the wire tie we furnish with each mold enables you to pull the tie so tight that it will sink into the corners of the post and thus prevent any up or down slip.

Sides, top and bottom of this mold are of well braced castings. The division boards are of wood reinforced with band iron. This makes them light enough to handle easily and strong enough to do the work intended. Posts can be made of semi-wet material and tamped, the mold being removed

as soon as tamping is completed. This mold can also be used to make posts of wet or slush concrete but this method would necessitate leaving the mold around the posts for from three to six hours. The remarks made on the preceding page in regard to cost of posts apply to posts made in this mold gang, although the labor cost will be reduced somewhat, as this mold has greater capacity. One man should make about 150 posts per day.

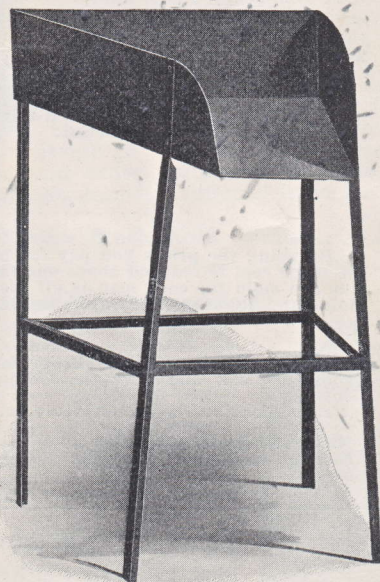
Size—This mold makes posts 7 feet long, $3\frac{1}{4}$ inches thick, 5 inches wide at bottom and $3\frac{1}{4}$ inches wide at top. Each gang is furnished with a special tool for placing the reinforcing wires and a wire tie as described on preceding page. Shipped direct from factory in CENTRAL OHIO.

63B5895—Triumph Post Mold Gang for 6 posts. Shipping weight, 140 pounds. Price.....**\$15.85**



Facing Tables

A
Great
Convenience
for
Making
Faced
Blocks



Wizard Facing Table.

This steel table is a big help when making faced blocks. The facing mixture is right where you want it, and enough for a block can be scraped into the machine without loss of time. It is designed expressly for attachment to our Wizard Block Machine. If your machine has the old style straight handles, we can furnish the offset handles at prices shown below. This facing table measures 28 inches wide at the back, 11 inches wide at the front and is $7\frac{1}{2}$ inches deep. It will hold about 2 cubic feet which is as much facing material as it is advisable to mix at one time. Shipped from factory in CENTRAL OHIO.

63B5525—Wizard Facing Table, without Block Machine. Shipping weight, 40 pounds. Price.....**\$7.80**
63B5526—Offset Handles for Wizard Block Machine. Shipping weight, 10 pounds. Price, per pair.....**1.15**

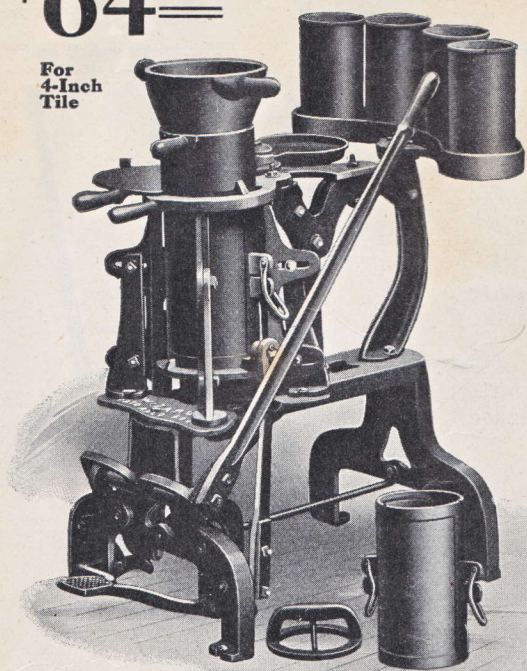
Universal Facing Table.

This table has been designed for use with any block machine which is not over 31 inches high. The hopper measures 28 inches wide at the back, 11 inches wide at front and $7\frac{1}{2}$ inches deep. It measures 36 inches from the floor in the back and 32 inches from the floor in the front. Well made of sheet steel, with angle steel legs and steel braces. Every block maker should have one. It holds about 2 cubic feet of facing material, where it can be placed in the block machine without loss of time. Shipped securely crated from factory in CENTRAL OHIO.

63B5528—Universal Facing Table. Shipping weight, 50 pounds. Price.....**\$8.45**

\$64⁷⁰

For
4-inch
Tile



The machine is closed ready for the material which is thrown into the hopper of the tamper. The four cups shown on the rack are for handling the material, each cup containing enough for one tile. They are more convenient and therefore handled quicker than a shovel. The small tool shown is the ring trowel for finishing the top of the tile.

command a bigger percentage of profit than any other concrete product. Our Wizard Concrete Tile Machine will make more money for you than any other machine you can buy. Better send your order today and get started in this profitable business. If you are figuring on a power outfit which will cost you about \$1,200.00, you can make more money on your investment by buying two of our Wizard Machines at a cost of but \$129.40 and which will give you practically the same capacity with less help. With a power outfit you will have to buy an engine, which increases your running expenses. There is no overhead expense like this when you use the Wizard Concrete Tile Machine.

Two barrels of cement to 1 cubic yard of sand will make about 650 perfect 4-inch tile. This is a good strong tile, made up of a mixture of one part cement to three and one-half parts sand. The cost of cement, sand and labor varies in different localities, and if you will insert the costs of these items in the table below you can easily figure what it will cost you to make tile.

Cement, 2 barrels.....	
Sand, 1 cubic yard.....	
Two men, 8 hours each.....	
One boy, 8 hours.....	

Total cost of 650 4-inch tile.....

This cost can be reduced by using four or five parts of sand to one of cement, but tile made of a weak mixture like this will of course be weaker than a tile made of a one to three and one-half mixture.

Farmers! make your own tile on one of our Wizard Tile Machines and supply your neighbors. You can make tile in your spare time and, as they are made very rapidly, you will be able to make more than enough for your own needs and can supply your neighbors, furnishing them with a first class concrete tile at less cost than they would have to pay for clay tile. In a short time you will be able to make the machine pay for itself. After that all the tile you sell will be clear profit over and above what the material costs you.

Concrete tile are far better than clay tile. Don't let anyone tell you that concrete tile are not superior to clay tile. The fact that many cities and towns are using concrete tile in preference to clay or iron pipe for sewerage purposes is sufficient evidence that concrete tile are durable and adapted for the purpose intended in every way. When you put a clay drain tile in the ground you have no assurance how long it is going to last. It may last a season or two or it may last a little longer, but there is no telling when it will give out and then you have the expense of tiling the ground all over again. When you put a concrete tile in the ground it continues to get stronger with age, and at the end of three years it is much stronger than it was when first put in. Concrete tile are not injured by freezing. We might tell you many more advantages of using concrete tile, but their value has been proven so many times by various authorities that we feel it is unnecessary. You can take our word for it. There is no better material than concrete for making tile.

The Wizard Tile Machine

Makes Big Profits

Concrete tile is superseding clay tile all over the country. It has been proven beyond all doubt that concrete tile is far superior to clay tile in every respect. Concrete tile can be made and sold at a much lower price than clay tile, but at the same time the profits in its sale are much larger. Better order one of these machines at once and be the first in the field.

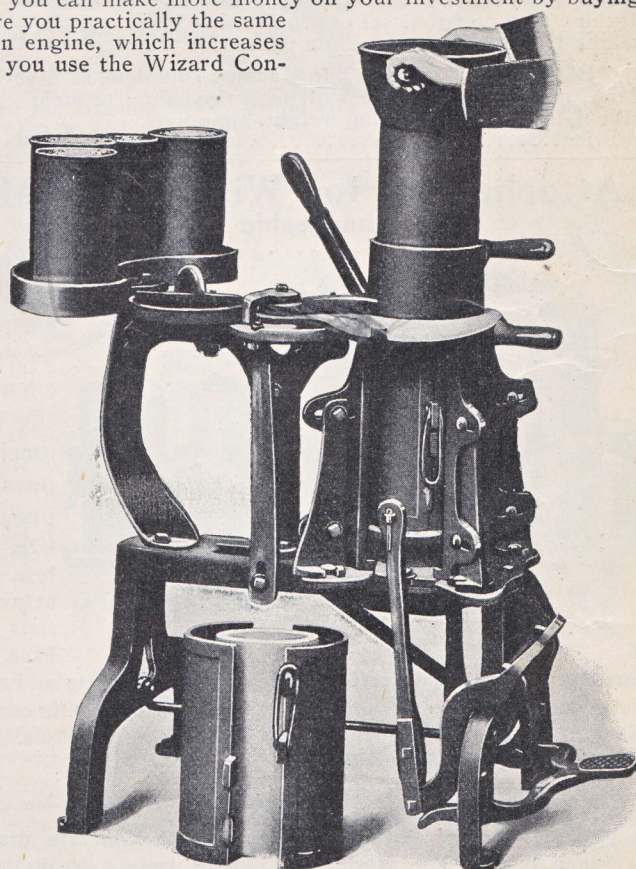
A simple machine of quick action. The illustrations show the position of the various parts of the machine in the different operations of filling, tamping and releasing the tile. The machine is exceedingly simple and is entirely free from all complicated parts, so there is practically nothing about it to get out of order. The stand is made up of heavy castings securely fastened together. No. 1 grade gray iron castings and cold rolled steel are used in the construction of the machine, giving it great strength. All parts are made interchangeable and can be replaced very easily if broken through accident. Any defective part will be replaced without extra charge.

Capacity.

The capacity of our Wizard Tile Machine is very big for a machine operated by hand. Two men and a boy can turn out from 900 to 1,100 perfect tile a day. Where a concrete mixer is used, and racks for convenient handling of tile are built, this capacity can be increased. There is no need for you to invest \$1,500.00 to \$2,000.00 in a power machine and engine to turn out a large quantity of tile. Buy two of our Wizard machines and a concrete mixer and with four men and two boys you will have a plant capable of turning out from 1,800 to 2,200 tile a day. You can make 4-inch concrete tile for less than 3 cents each and can easily sell them at from 8 to 10 cents each. Think of the big profit you make! You are losing money every day you are without this machine.

You Are in the Concrete Business for Profit

and you cannot afford to overlook the demand for concrete drain tile. They are made easily and cheaply, as we have already explained, and they



The tile is partially completed and tamper is clearly shown. This view also shows the retaining plate and hopper which retains all surplus material, preventing the scattering of it all over the floor, and making a great saving in the course of a day. The other jacket has just been released from a tile and method of clamping jacket together is clearly shown.

The Wizard Tile Machine

A very simple, yet efficient hand operated tile machine, made of high grade materials and assembled by expert workmen.

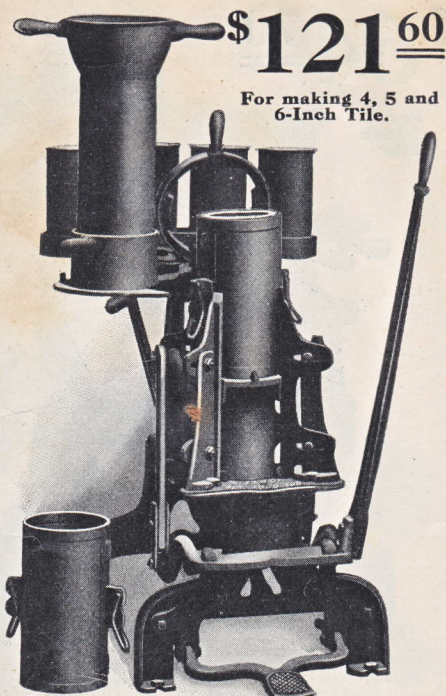
The machine is made throughout of No. 1 gray iron castings, with steel shafting where needed.

The frame is made of heavy reinforced castings securely assembled. All castings are perfectly fitted, well braced and firmly bolted together.

The core is of cast iron securely bolted to the frame and is immovable. By having the core stationary and by stripping the tile off it as we do, you are bound to turn out perfect tile every time. It is the only perfect way to make tile on a hand tile machine.

The jacket in which the tile is formed is made of cast iron in two parts securely held together with simple latches which are easily opened to release the tile.

The tamper is formed with a hopper shaped end with two smooth handles attached. The material for making the tile is put in the hopper end of the tamper and feeds as you tamp. As the tamper is heavy but little energy is required to tamp the tile properly. There are guiding ribs inside which insure even feeding of the material and a tile of even consistency throughout. A rack is provided at the rear end of the machine for holding the measuring cups, which are made of heavy galvanized iron and are just large enough to contain sufficient material for one tile. A boy can keep these cups filled, which enables you to make tile faster than if you were to handle the material by means of a shovel. A set of four cups, each holding sufficient material for one tile, is furnished with each machine. No material is wasted. Each machine is fully guaranteed and sold subject to trial, as explained on page 6. Shipped from factory in CENTRAL OHIO.



\$121⁶⁰

For making 4, 5 and 6-Inch Tile.

The tile has been completed and the tamper held in the retaining hopper by the retaining plate has been swung over out of the way. The hand lever has been brought forward, thus raising the jacket and tile, stripping it from the core, which is securely attached to the machine. Guide strips hold the jacket securely in position and center the core perfectly. No poorly shaped tile can be made on the Wizard.

Price List of Wizard Concrete Tile Machines.

63B5868—Wizard Tile Outfit, consisting of Wizard Tile Machine with complete set of attachments for making 4, 5 and 6-inch tile. Shpg. wt., 400 lbs. Price... **\$121.60**

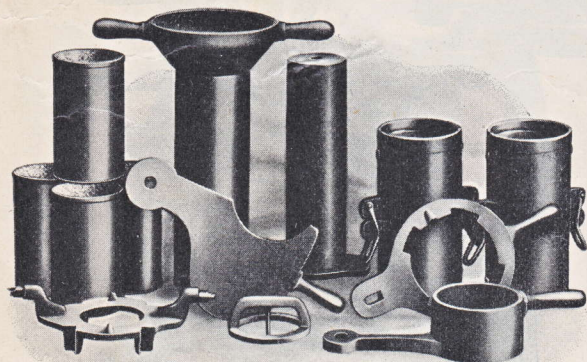
63B5870—No. 4 Wizard Tile Machine complete, as described above, makes concrete tile with 4-inch opening, 12 inches long with $\frac{5}{8}$ -inch wall. Shipping weight, 275 pounds. Price... **\$64.70**

63B5872—No 5 Wizard Tile Machine complete, makes concrete tile with 5-inch opening, 12 inches long with $\frac{5}{8}$ -inch wall. Shipping wt., 285 lbs. Price.... **\$69.85**

63B5874—No. 6 Wizard Tile Machine complete, makes concrete tile with 6-inch opening, 12 inches long with $\frac{5}{8}$ -inch wall. Shipping wt., 300 lbs. Price.... **\$77.60**

Attachments for Wizard Tile Machine

Interchangeable Attachments.



Each machine as listed is designed for one size of tile. To change size of tile made on a machine, simply purchase attachment of proper size, as listed below. Each set of attachments consists of a core, core base, mold supports, tamping hopper, retaining hopper, two jackets and a set of galvanized cups. These attachments are for use only with our Wizard Tile Machine. You cannot make tile in the attachment alone. Shipped from factory in CENTRAL OHIO.

Price List.

63B5871—Set of Attachments for 4-inch concrete drain tile, fits 5 or 6-inch Wizard Tile Machine. Shipping weight, 50 lbs. Price... **\$20.70**
63B5873—Set of Attachments for 5-inch concrete drain tile, fits 4 or 6-inch Wizard Tile Machine. Shipping weight, 75 lbs. Price... **\$25.90**
63B5875—Set of Attachments for 6-inch concrete drain tile, fits 4 or 5-inch Wizard Tile Machine. Shipping weight, 100 pounds. Price... **\$31.05**

Cupping Attachment.

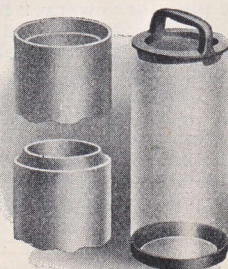
This attachment forms a cup and groove end on the tile, as illustrated, and is very desirable when a tight joint is necessary. The top ring forms the groove in top of tile and only one of each size is required. The bottom ring must stay under tile until hard enough to move, so order enough extra rings, one for each tile you want to make in a day. Be sure to order the correct size. Shipped from factory in CENTRAL OHIO.

Price List. Top Rings.

63B6034—Top Ring for 4-inch Wizard Tile Machine. Shipping weight, 2 pounds. Price, each... **54c**
63B6035—Top Ring for 5-inch Wizard Tile Machine. Shipping weight, 2½ pounds. Price, each... **69c**
63B6036—Top Ring for 6-inch Wizard Tile Machine. Shipping weight, 3 pounds. Price, each... **70c**

Bottom Rings.

63B6044—Bottom Ring for 4-inch Wizard Tile Machine. Shipping weight, 1 pound. Price, each... **15c**
63B6045—Bottom Ring for 5-inch Wizard Tile Machine. Shipping weight, 1½ pounds. Price, each... **20c**
63B6046—Bottom Ring for 6-inch Wizard Tile Machine. Shipping weight, 1¾ pounds. Price, each... **28c**



The core in all sizes except 4-inch is of galvanized iron, provided with a simple collapsing device which releases the core very easily. The core is quickly and easily drawn without breaking the tile. There is no complicated arrangement for collapsing the core, but it is a very simple combination of levers. The core on the 4-inch mold is solid or non-collapsing, being made of galvanized iron and is slightly tapered. A stripping plate is furnished so core can be withdrawn easily by a twisting motion without breaking the tile. It is impracticable to make a 4-inch collapsible core that is successful; the taper of this core is so slight that there are no offsets or shoulders in which dirt can lodge when laying the tile.

The core hood is of cast iron and closes the upper end of core so that concrete material cannot get down inside of core. The 4-inch core and hood are one piece.

The hopper is to be placed over the jacket to guide the material in between the core and the jacket, preventing spilling the material while tamping. It makes the mold very convenient and insures economy in the manufacture of the tile. Hopper on all sizes up to 14-inch is of cast iron; 18-inch and 24-inch hoppers are of heavy galvanized iron reinforced with bands of wrought iron.

We guarantee our Triumph Sewer and Tile Molds to be perfect in material and workmanship and to give satisfaction in every way. If you are not perfectly satisfied you can return any mold you buy and we will return the price you paid, together with freight charges.

Price List of Triumph Tile Molds.

All sizes are shipped from factory in CENTRAL OHIO.

- 63B5821—Four-Inch Tile Mold.** Makes tile 4 inches in diameter inside, 12 inches long; wall 1 inch thick. Shipping weight, 25 pounds. Price.....\$10.40
- 63B5822—Six-Inch Tile Mold.** Makes tile 6 inches in diameter inside, 12 inches long; wall 1 inch thick. Shipping weight, 30 pounds. Price.....\$11.00
- 63B5823—Eight-Inch Tile Mold.** Makes tile 8 inches in diameter inside, 18 inches long; wall 1½ inches thick. Shipping weight, 50 pounds. Price.....\$13.25
- 63B5824—Ten-Inch Tile Mold.** Makes tile 10 inches in diameter inside, 18 inches long; wall 1¾ inches thick. Shipping weight, 70 pounds. Price.....\$18.50

See next page for attachments to make pipe with tongue and bevel ends.

Cost of Making Tile on Triumph Molds.

Whether you buy a Wizard Tile Machine or not it will pay you to read over the description of the Wizard Machine and learn of some of the advantages of concrete over clay tile. It will cost more to make tile on the Triumph Molds because they are slower. **Only one set of molds in one size is needed**, as the mold is removed from the tile as soon as tamped. We furnish everything complete with the mold, including the tamper.

As the cost of material and labor varies in different sections we cannot give you any accurate estimate as to the cost of making tile. However, we can tell you how much material it takes and can give you an idea as to the labor required so you can easily figure the cost yourself. An unusually good tile can be made of a mixture consisting of one part cement and three parts sand. This mixture would require a little less than 1 cubic yard of sand and 2¼ barrels of cement to make a cubic yard of concrete. For drain tile use one part cement to five parts clean sharp sand. This mixture would require a little less than 1 cubic yard of sand and 1½ barrels of cement to make a cubic yard of concrete. The table below shows the capacity of each mold and in connection with the above figures and cost of material and labor in your section will enable you to figure very closely what the tile will cost you.

When Bevel and Tongue attachment is used the output per day is reduced slightly because it takes longer to use the special attachment. The other figures will remain about the same. In actual practice more tile can be made than our figures show as our estimate is very conservative.

Diameter, Inches	Length, Inches	Number to Cubic Yard	Daily Output, 2 Men	Diameter, Inches	Length, Inches	Number to Cubic Yard	Daily Output, 2 Men
4	12	250	125	12	24	34	85
6	12	175	125	14	24	26½	70
8	18	81	110	18	24	18	60
10	18	59	90	24	24	12	50

- 63B5825—Twelve-Inch Tile Mold.** Makes tile 12 inches in diameter inside, 24 inches long; wall 1¾ inches thick. Shipping weight, 130 pounds. Price.....\$19.95
- 63B5826—Fourteen-Inch Tile Mold.** Makes tile 14 inches in diameter inside, 24 inches long; wall 1½ inches thick. Shipping weight, 140 pounds. Price.....\$22.00
- 63B5827—Eighteen-Inch Tile Mold.** Makes tile 18 inches in diameter inside, 24 inches long; wall 1¾ inches thick. Shipping weight, 160 pounds. Price.....\$25.50
- 63B5828—Twenty-Four Inch Tile Mold.** Makes tile 24 inches in diameter inside, 24 inches long; wall 2 inches thick. Shipping weight, 190 pounds. Price.....\$32.00

This General Information Book, which we furnish free with our concrete machinery, tells you everything you need know to successfully make concrete products. Furthermore, we will cheerfully answer any questions you may want to ask in reference to this subject, so you may feel doubly sure of success in making perfect products. The letters and pictures shown throughout this book demonstrate what inexperienced men have done, and you can surely do likewise. Be sure to ask for this book when you place your order, as we include it only when asked for.



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Concrete
Products**

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ERNST WEISS BROOKFIELD, ILL.

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BENJ. F. BUTLER BAYVILLE, N.J.

ROBT. MOODY EUREKA, ILL.

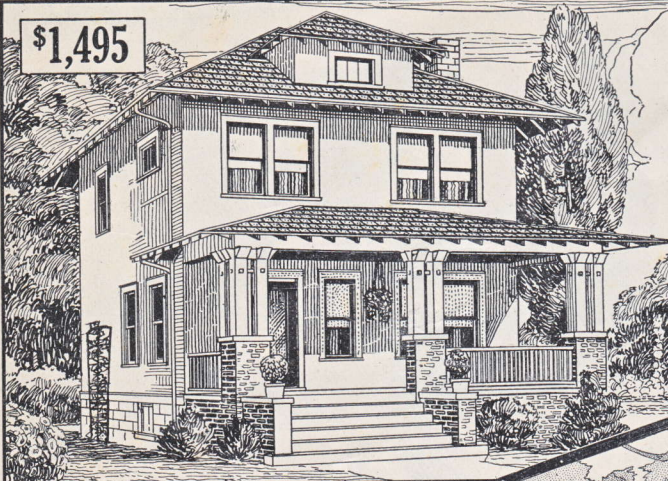
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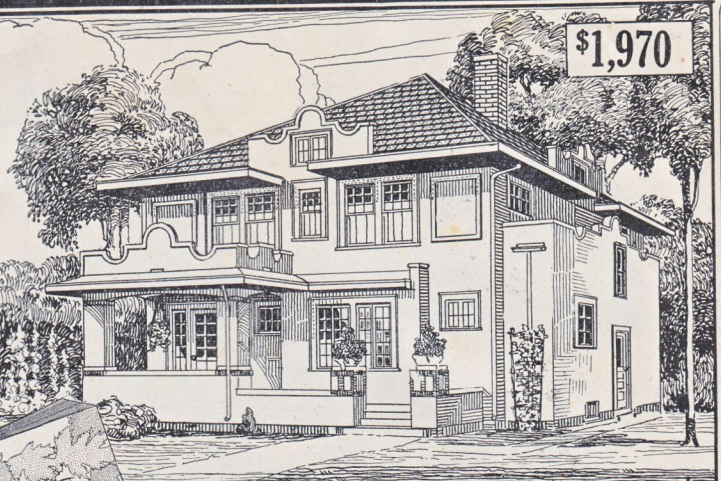
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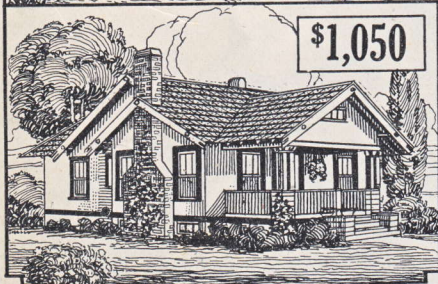
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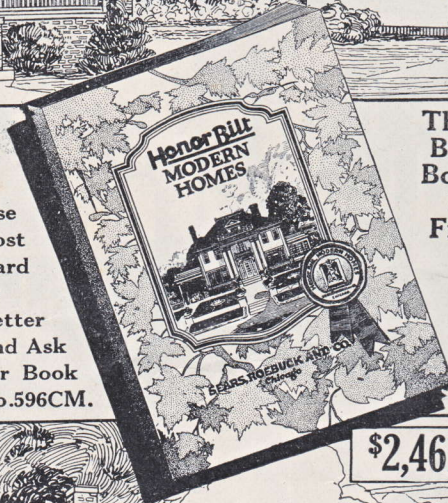


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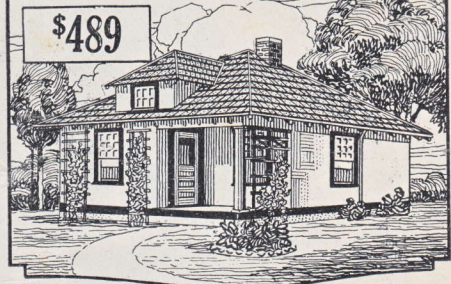


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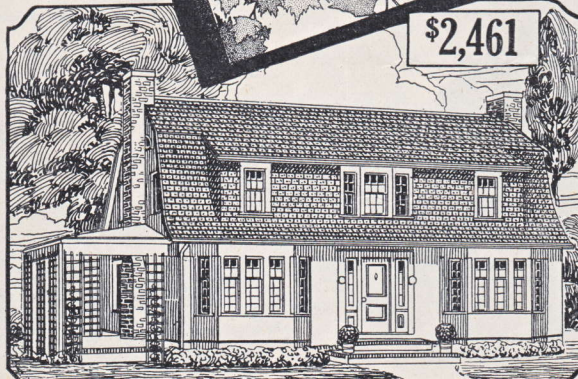


\$489

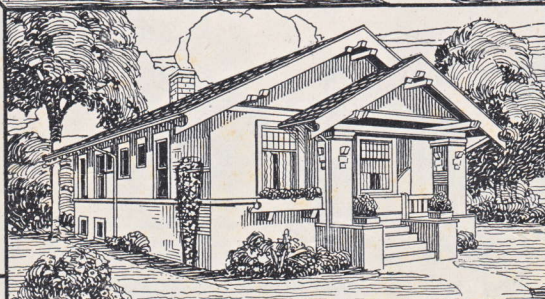
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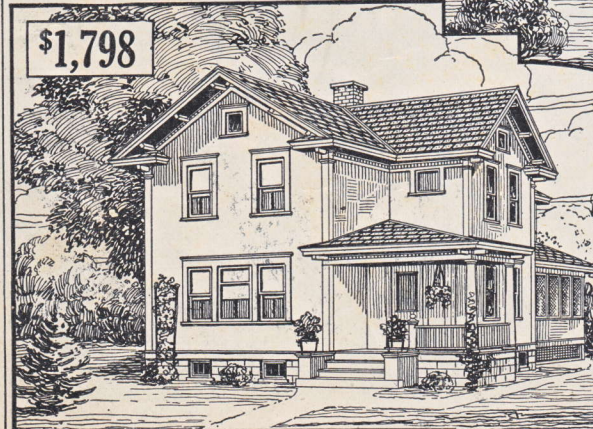
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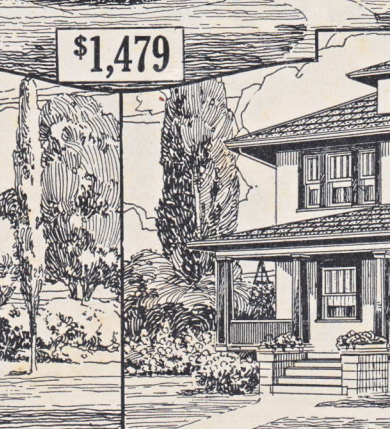
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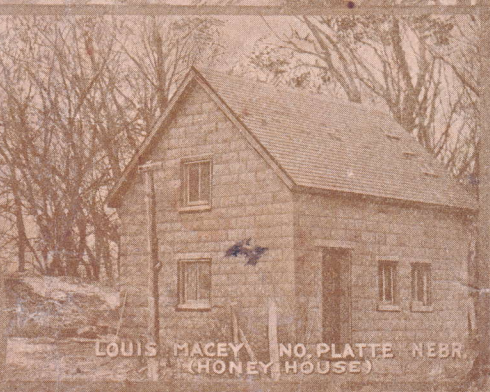
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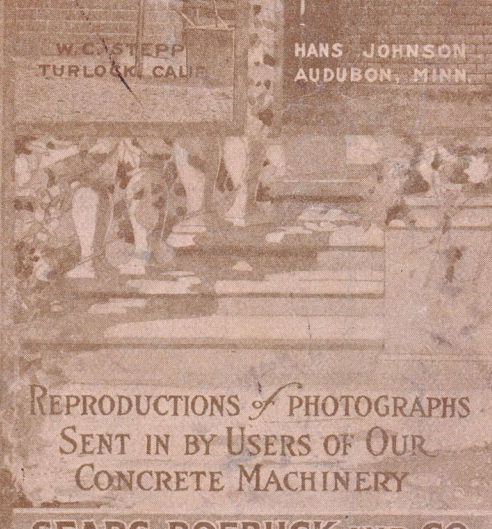
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